



# SOFTWARES & ONLINE TOOLS USED BY DEPARTMENTS

# GENBANK

## Used by PG Department of Microbiology for DNA sequence information

NCBI Resources  How To  Sign in to NCBI

Nucleotide   [Save search](#) [Limits](#) [Advanced](#) Help

**ⓘ** The information on this web site remains accessible, but, due to the lapse in government funding, the information may not be up to date, and the agency may not be able to respond to inquiries until appropriations are enacted. For updates regarding government operating status see [USA.gov](#)

**Display Settings:**  Summary, 20 per page, Sorted by Default order **Send to:**

**ⓘ** Found 48711 nucleotide sequences. Nucleotide (31351) EST (16391) GSS (969)

**Results: 1 to 20 of 31351** << First < Prev Page  of 1568 Next > Last >>

[R.catesbeiana \(bullfrog\) serum albumin mRNA, 3' end](#)

1. 1,329 bp linear mRNA  
Accession: M38195.1 GI: 213695  
[GenBank](#) [FASTA](#) [Graphics](#)

[Frog albumin mRNA, partial cds](#)

2. 297 bp linear mRNA  
Accession: M28276.1 GI: 213939  
[GenBank](#) [FASTA](#) [Graphics](#) [Related Sequences](#)

[Mus musculus gene for albumin, exons 1-5](#)

3. 8,600 bp linear DNA  
Accession: AJ277794.1 GI: 26986063  
[GenBank](#) [FASTA](#) [Graphics](#) [Related Sequences](#)

[Homo sapiens albumin \(ALB\), mRNA](#)

**Filter your results:**

- All (31351)
- [Bacteria \(93\)](#)
- [INSDC \(GenBank\) \(30449\)](#)
- [mRNA \(1443\)](#)
- [RefSeq \(895\)](#)

[Manage Filters](#)

**▼ Top Organisms [\[Tree\]](#)**

- Homo sapiens (8999)
- synthetic construct (4054)
- Oryctolagus cuniculus (647)
- Mus musculus (392)
- unidentified (367)
- All other taxa (1755)
- More...

**Find related data**

# SWISS PROT

Used by PG Department of Microbiology for Protein sequence data base

UniProt > UniProtKB Downloads · Contact · Documentat

Search   Blast \*   Align   Retrieve   ID Mapping \*

Search in **Query**  
Protein Knowledgebase (UniProtKB)    [Advanced Search »](#)

**Q8GBW6** (12S\_PROFR) ★ Reviewed, UniProtKB/Swiss-Prot [Contribute](#)  
[Send feedback](#)  
[Read comments \(?\) or add yo](#)  
Last modified November 30, 2010. Version 47. [History...](#)

[Clusters with 100%, 90%, 50% identity](#) | [Documents \(2\)](#) | [Third-party data](#) [text](#) [xml](#) [rdf/xml](#) [gf](#)

[Names](#) · [Attributes](#) · [General annotation](#) · [Ontologies](#) · [Sequence annotation](#) · [Sequences](#) · [References](#) · [Cross-refs](#) · [Entry info](#) · [Documents](#)  
[Customize order](#)

### Names and origin

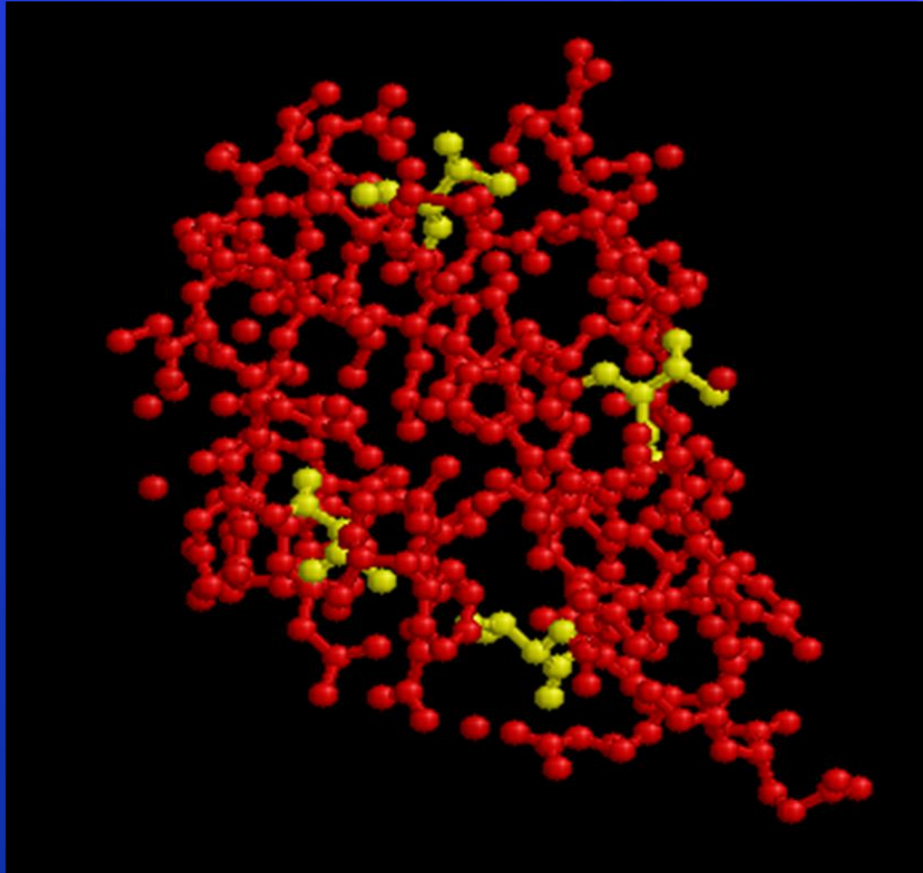
Protein names	<i>Recommended name:</i> <b>Methylmalonyl-CoA carboxyltransferase 12S subunit</b> EC=2.1.3.1 <i>Alternative name(s):</i> Transcarboxylase 12S subunit
Organism	<a href="#">Propionibacterium freudenreichii subsp. shermanii</a>
Taxonomic identifier	<a href="#">1752</a> [NCBI]
Taxonomic lineage	<a href="#">Bacteria</a> > <a href="#">Actinobacteria</a> > <a href="#">Actinobacteridae</a> > <a href="#">Actinomycetales</a> > <a href="#">Propionibacterineae</a> > <a href="#">Propionibacteriaceae</a> > <a href="#">Propionibact</a>

### Protein attributes

Sequence length	611 AA.
-----------------	---------

# RASMOL

## Molecular graphic visualisation used by PG Department of Microbiology



```
RasMol Command Line
*** See "help notice" for further notices
Molecule name ..... INSULIN A CHAIN;
Classification ..... HORMONE
Secondary Structure ... PDB Data Records
Database Code ..... 4AK0
Experiment Technique .. X-RAY DIFFRACTION
Number of Chains ..... 4
Number of Groups ..... 50 (24)
Number of Atoms ..... 392 (24)
Number of Bonds ..... 3
Number of Helices ..... 4
Number of Strands ..... 0
Number of Turns ..... 0
Number of Bonds ..... 399

RasMol> select protein
392 atoms selected!
RasMol> color red
RasMol> select val
28 atoms selected!
RasMol> color yellow
RasMol>
```

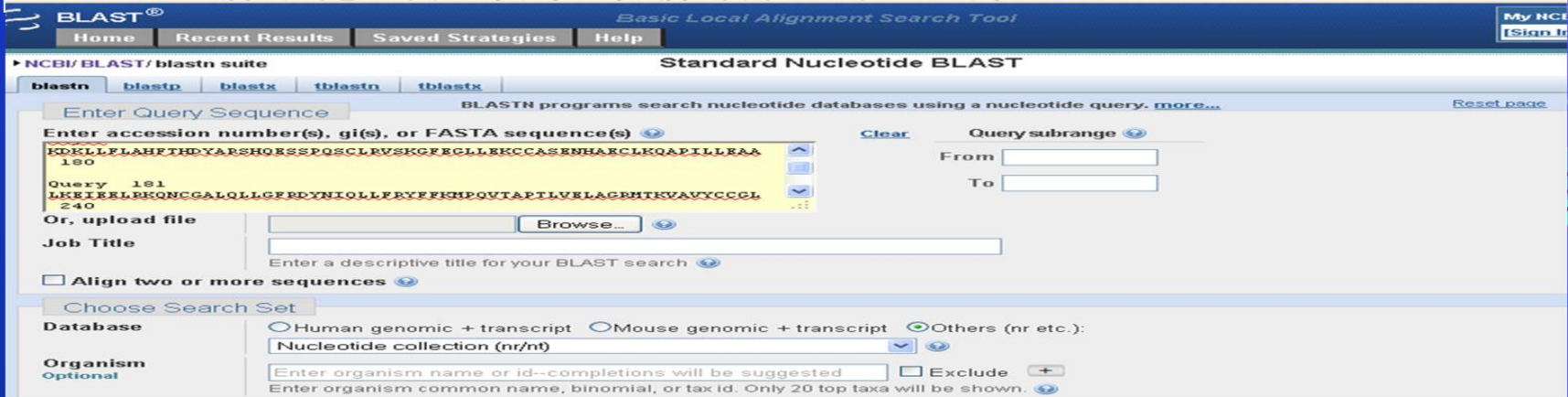
# BLAST

## DNA and Protein sequences database used by PG Department of Microbiology



The screenshot shows the BLAST homepage with the following elements:

- Navigation:** Home, Recent Results, Saved Strategies, Help.
- BLAST Home:** BLAST finds regions of similarity between biological sequences. [more...](#)
- Feature:** **New** DELTA-BLAST, a more sensitive protein-protein search
- BLAST Assembled RefSeq Genomes:** Choose a species genome to search, or [list all genomic BLAST databases](#).
- Species List:**
  - Human
  - Mouse
  - Rat
  - Arabidopsis thaliana*
  - Oryza sativa*
  - Bos taurus*
  - Danio rerio*
  - Drosophila melanogaster*
  - Gallus gallus*
  - Pan troglodytes*
  - Microbes*
  - Apis mellifera*
- Basic BLAST:** Choose a BLAST program to run.
  - nucleotide blast:** Search a **nucleotide** database using a **nucleotide** query. Algorithms: blastn, megablast, discontinuous megablast.
  - protein blast:** Search **protein** database using a **protein** query. Algorithms: blastp, psi-blast, phi-blast, delta-blast.
  - blastx:** Search **protein** database using a **translated nucleotide** query.

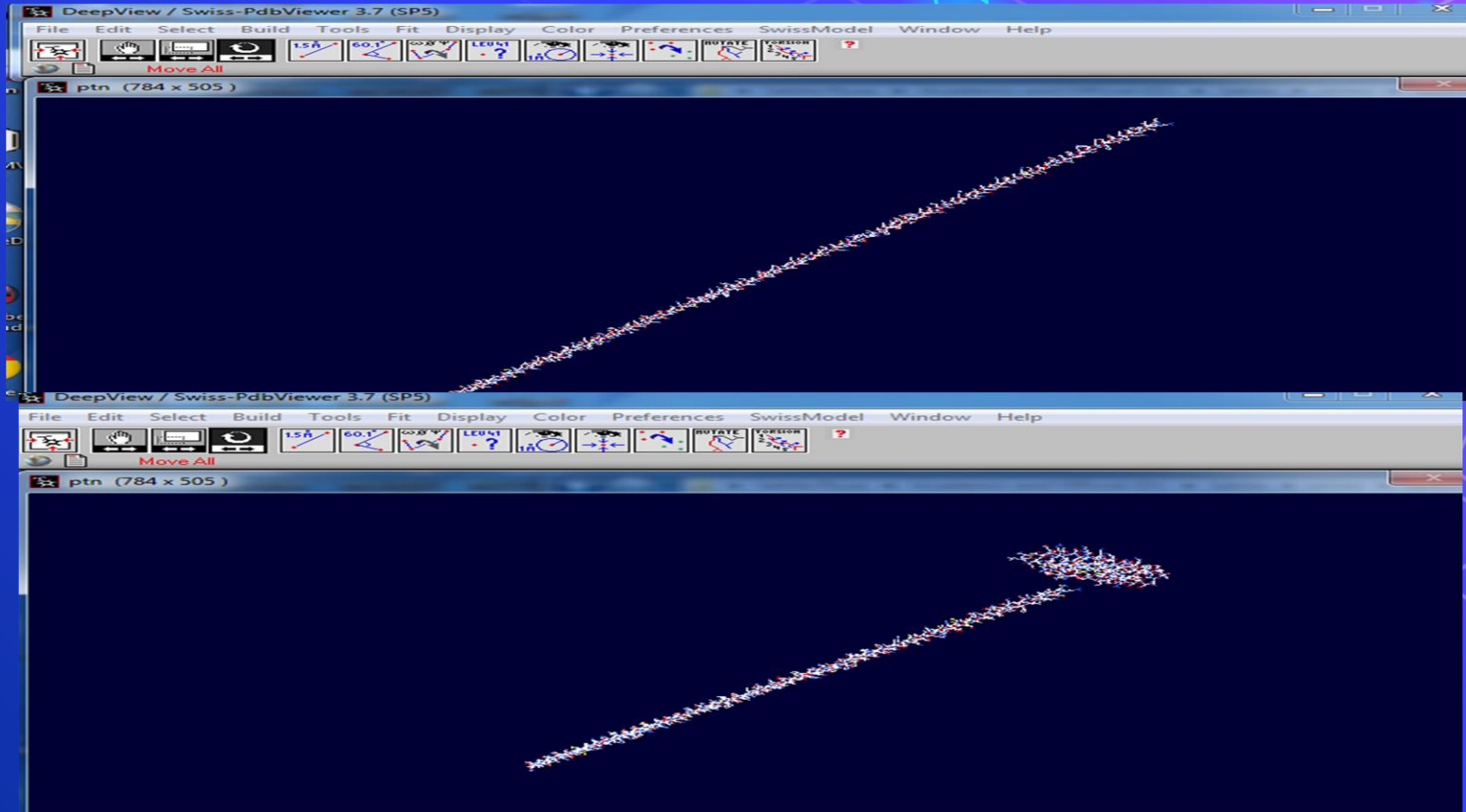


The screenshot shows the BLAST search interface with the following elements:

- Navigation:** Home, Recent Results, Saved Strategies, Help.
- BLAST/blastn suite:** Standard Nucleotide BLAST
- blastn | blastp | blastx | tblastn | tblastx**
- Enter Query Sequence:** BLASTN programs search nucleotide databases using a nucleotide query. [more...](#)
- Input Fields:**
  - Enter accession number(s), gi(s), or FASTA sequence(s)
  - Query subrange: From  To
  - Job Title:
  - Align two or more sequences:
- Choose Search Set:**
  - Database:**  Human genomic + transcript  Mouse genomic + transcript  Others (nr etc.): Nucleotide collection (nr/nt)
  - Organism Optional:**   Exclude  Enter organism name or id-completions will be suggested. Enter organism common name, binomial, or tax id. Only 20 top taxa will be shown.

# HOMOLOGY MODELING SPDBV

Used by PG Department of Microbiology for Protein structure visualisation



001



# CHEM DRAW

By department of Chemistry for drawing molecular structure

The screenshot displays the ChemDraw JS web application interface. The browser address bar shows the URL `chemdrawdirect.perkinelmer.cloud/js/sample/index.html`. The software menu includes **New**, **Document**, **Selection**, **Structure**, **Reaction**, **Utilities**, and **Help**. The toolbar contains various drawing tools for lines, polygons, rings, and text.

Two chemical reaction mechanisms are shown:

1. Hydroboration-oxidation of 1-methylcyclohexene. The reaction starts with 1-methylcyclohexene reacting with  $\text{BH}_3$  to form a cyclic borane intermediate. This intermediate then reacts with  $\text{H}_2\text{O}_2$  to yield 1-methylcyclohexanol. The stereochemistry of the final product is shown with a wedged methyl group and a dashed hydroxyl group.

2. A reaction mechanism involving a cyclic sulfonamide derivative. The starting material is a cyclic sulfonamide with a sulfonamide group ( $\text{SO}_2\text{NH}_2$ ) and a methyl group. The reaction proceeds through a cyclic intermediate to form a product with a methyl group and a hydroxyl group.

A timestamp `2021-06-13-10-05-39` is overlaid on the bottom left of the reaction area. The video player interface at the bottom shows a progress bar at `00:13:06` and a total duration of `01:10:00`. The Windows taskbar at the bottom right shows the date `13-06-2021` and time `10:18`.

# CHEM SKETCH

By department of Chemistry for drawing molecular structure

Meet - sih-bsxy-bcy

meet.google.com/sih-bsxy-bcy?pli=1&authuser=0

Deepak K is presenting

Anagha Rani and 51 more

54

10:38 AM

You

Reaction Calculator

Reactant	Formula	F.W.	K	n	C	m	V	d	Yield
1	C <sub>6</sub> H <sub>5</sub> O	94.1112	1	0.4 mol	-	37.644 g	342.22 mL	0.11 g/mL	Based on
2	C <sub>2</sub> H <sub>3</sub> ClO	78.4976	1	0.4 mol	-	31.399 g	261.66 mL	0.12 g/mL	-
3	C <sub>2</sub> H <sub>5</sub> N	79.0999	1	0.4 mol	-	31.64 g	158.2 mL	0.2 g/mL	-
Product									
1	C <sub>8</sub> H <sub>9</sub> O <sub>2</sub>	136.1478	-	-	-	-	-	-	-
Theory	C <sub>8</sub> H <sub>9</sub> O <sub>2</sub>	136.1478	1	0.4 mol	-	54.459 g	-	-	100 %

2021-05-23-10-09:46

00:26:18 Meeting details

Turn on captions

Deepak K is presenting

00:31:26



# MENDELEY

## Reference manager used by postgraduate department of Chemistry & Physics

The screenshot displays the Mendeley Desktop application window. The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for adding files, folders, syncing, and help, and a search bar. On the left, there is a sidebar for 'My Library' with options like 'All Documents', 'Recently Added', 'Recently Read', 'Favorites', 'Needs Review', 'My Publications', and 'Project'. Below this is an 'External Library' section and a 'Groups' section. A 'Filter by Authors' dropdown is also present, listing authors such as Baumann, Werner, Broxterman, Quirinus B., Canning, A. S., Cozzi, Pier Giorgio, Díaz, Eva, Döhrring, Arno, Faba, Laura, Figueras, F, Fripiat, J J, Gao, Jia, Hattori, Hideshi, Jackson, S. D., Kaptein, Bernard, Kervennal, J, Lippert, Sigrid, and List, Benjamin.

The main area shows a list of documents under the 'All Documents' tab. The list includes:

- Formatted Citation - American Medical Association 11th edition
- 1. Canning AS, Jackson SD, McLeod E, Vass EM. Aldol condensation of acetone over CsOH/SiO<sub>2</sub>: A mechanistic insight using isotopic labelling. In: *Applied Catalysis A: General*. Vol 289. ; 2005:59-65. doi:10.1016/j.apcata.2005.04.019
- 2. Faba L, Díaz E, Ordóñez S. Aqueous-phase furfural-acetone aldol condensation over basic mixed oxides. *Appl Catal B Environ*. 2012;113-114:201-211. doi:10.1016/j.apcatb.2011.11.039
- 3. Gao J, Tepljakov A V. Chemical transformations of acetone on ZnO powder. *J Catal*. 2014;319:136-141. doi:10.1016/j.jcat.2014.08.014
- 4. Lippert S, Baumann W, Thomke K. *Secondary Reactions of the Base-Catalyzed Aldol Condensation of Acetone*. Vol 69.; 1991.
- 5. Luppi G, Cozzi P, Monari M, Capitan B, Broxterman CB, Tansini C. Dipeptide-catalyzed asymmetric aldol condensation of acetone with (N-alkylated) isatins. *J Org Chem*. 2005;70(18):7418-7421. doi:10.1021/jo051821a
- 6. Martínez A, Zumbansen K, Döhrring A, Van Gemmeren M, List B. Improved conditions for the proline-catalyzed aldol reaction of acetone with aliphatic aldehydes. *Synlett*. 2014;25(7):932-934. doi:10.1055/s-0033-1340919
- 7. Panov AG, Fripiat JJ. *Acetone Condensation Reaction on Acid Catalysts*. Vol 178.; 1998.
- 8. Reichle WT. *Pulse Microreactor Examination of the Vapor-Phase Aldol Condensation of Acetone*. Vol 63.; 1980.
- 9. Tichit D, Naciri Bennani M, Figueras F, Tessier R, Kervennal J. *Aldol Condensation of Acetone over Layered Double Hydroxides of the Meixnerite Type*. Vol 13.; 1998.
- 10. Zhang G, Hattori H, Tanabe K. *Aldol Condensation of Acetone/Acetone D6 over Magnesium Oxide and Lanthanum Oxide*. Vol 40. Elsevier Science Publishers B.V.; 1988.

The right-hand pane shows the details for the selected article (entry 5):

- Details | Notes | Contents
- These details need reviewing. You can mark them as correct, or search the Mendeley catalog. (Details are Correct | Search)
- Type: Journal Article
- Dipeptide-catalyzed asymmetric aldol condensation of acetone with (N-alkylated) isatins**
- Authors: G. Luppi, P. Cozzi, M. Monari et al. (View research catalog entry for this paper)
- Journal: *Journal of Organic Chemistry*
- Year: 2005
- Volume: 70
- Issue: 18
- Pages: 7418-7421
- Abstract:** The aldol condensation of acetone with several isatins is described. The desired compound was obtained in quantitative yield and with good enantioselectivities up to 77%. The best results were obtained with 10 mol % H-D-Pro-L-β3-hPhg-OBn as a catalyst, resulting in the preferential formation of the (R)-enantiomer. The absolute configuration of the newly formed chiral center has been assigned by an X-ray diffraction study and CD spectra analysis of the molecules. © 2005 American Ch...
- Activate Windows (Go to Settings to activate Windows.)

# SPSS

## Data analysis software used by Department of Mathematics and Microbiology

The screenshot shows a web browser window with the address bar displaying [onlinecourses.swyam2.ac.in/arp19\\_ap77/unit?unit=22&lesson=23](https://onlinecourses.swyam2.ac.in/arp19_ap77/unit?unit=22&lesson=23). The page content includes a sidebar with a weekly menu and a main content area displaying a screenshot of the IBM SPSS Statistics Data Editor interface.

**Weekly Menu:**

- Week 1
- Week 2
- Week 3
- Week 4
  - Introduction to SPSS
  - T-test and ANOVA
- Week 5
- Week 6
- Week 7
- Week 8
- Week 9
- Week 10
- Week 11
- Week 12
- Week 13
- Week 14
- Week 15

**SPSS Data Editor Variable List:**

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	id	Numeric	8	0	Student	None	None	8	Right	Unknown	Input
2	class	Numeric	8	2		None	None	8	Right	Unknown	Input
3	age	Numeric	8	2		None	None	8	Right	Unknown	Input
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

**SPSS Data Editor Interface:**

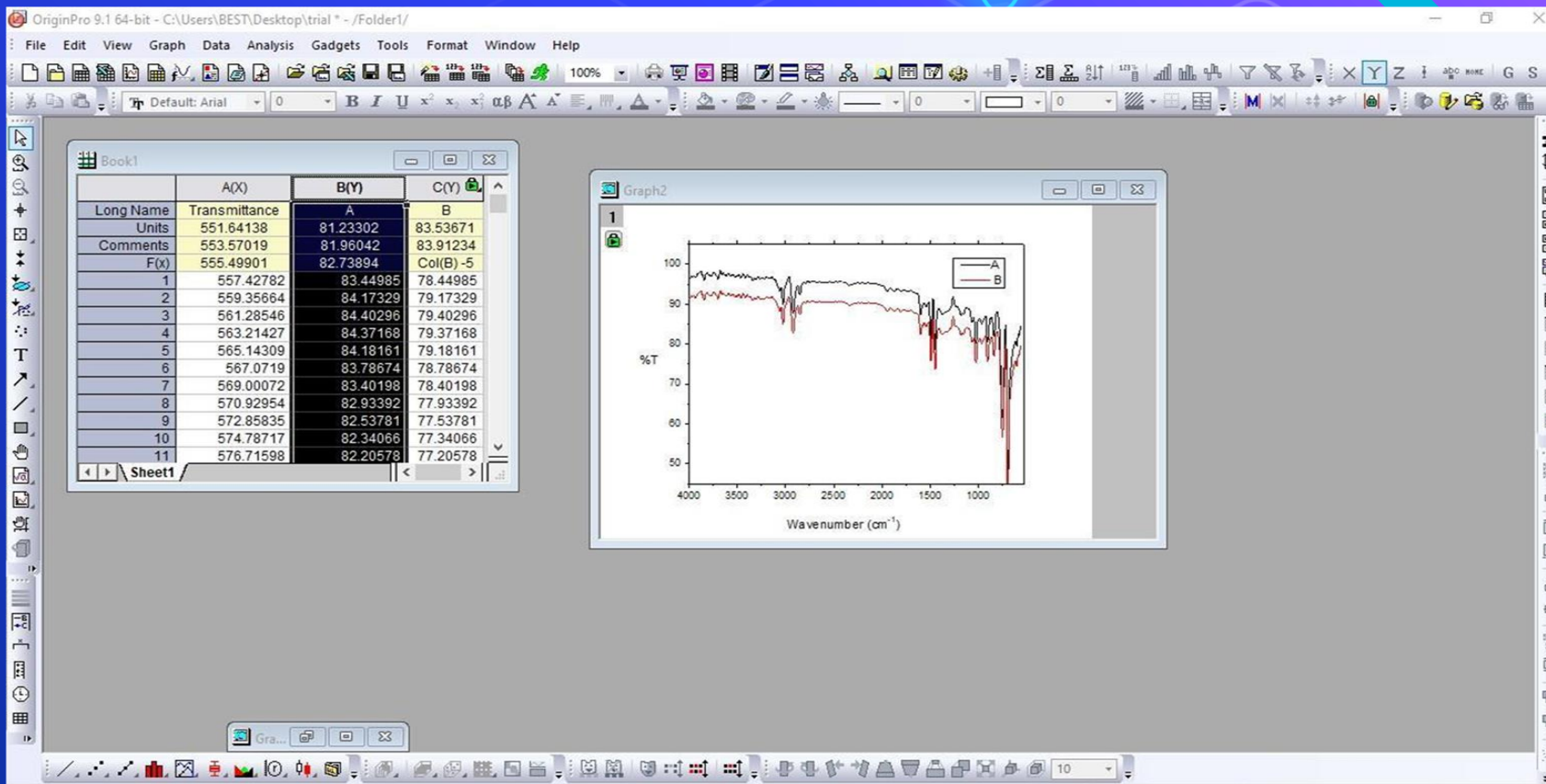
The screenshot shows the IBM SPSS Statistics Data Editor interface. The menu bar includes File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, Extensions, Window, and Help. The toolbar contains various icons for file operations and data manipulation. The main window displays a variable list with columns for Name, Type, Width, Decimals, Label, Values, Missing, Columns, Align, Measure, and Role. The 'id' variable is selected, and its label is 'Student'. The interface also shows a 'Data View' and 'Variable View' tab at the bottom.

Ask a question

Use this link to download the reading material: <https://drive.google.com/file/d/1A2CZ2P6hMa4LPNq9ff66eb3IF2hyvivu/view>

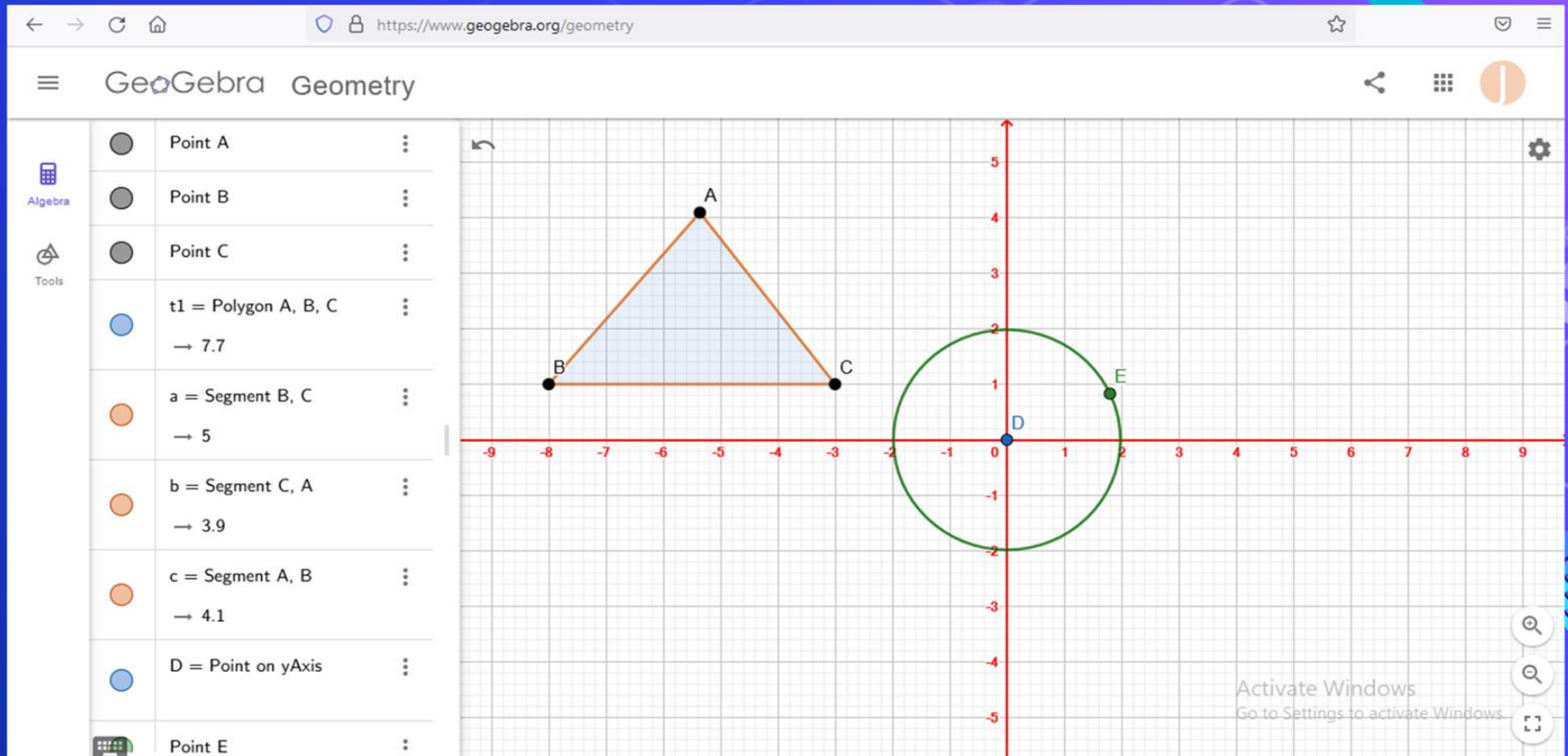
# ORIGIN

For data analysis and graphing used by postgraduate department of Chemistry & Physics ✓



# GEOGEBRA

An interactive geometry, algebra, statistics and calculus application used by PG department of Mathematics



# LIVE BOARD

Used by PG Department of Mathematics to create record and share lessons

The screenshot shows a web browser window displaying the LiveBoard online workspace. The browser's address bar shows the URL <https://app.liveboard.online/group/default/sessions>. The page header includes the LiveBoard logo, navigation tabs for BOARDS, RECORDINGS, and MEMBERS, and a user profile for Mathematics JP. The main content area is titled "# Default Workspace" and features a grid of boards. The boards are sorted by "Updated" and displayed in a grid of 1-4 of 4. The visible boards include:

- A board titled "COMMUTATIVE RINGS & PROPERTIES".
- An "Untitled board" created by Mathematics JP on 19 November 2021.
- A "Sample Pythagorean ..." board created by Mathematics JP on 19 November 2021, which contains handwritten mathematical content:

Pythagorean Theorem:

$$A^2 + B^2 = C^2$$
$$(3)^2 + (4)^2 = C^2$$
$$9 + 16 = C^2$$
$$25 = C^2$$
$$5 = C$$

$A=3$   $B=4$   $C=5$

If  $a^2 + b^2 = c^2$ , then it's a right  $\triangle$

If  $a^2 + b^2 < c^2$ , then  $\triangle ABC$  is an acute  $\triangle$

The bottom of the image shows the Windows taskbar with the search bar and various application icons, including the Start menu, search, task view, Edge, File Explorer, Calculator, Mail, Firefox, Word, and Photos. The system tray shows the date and time as 8:35 PM on 19/11/2021.



# MATH SOLVER

Used by PG Department of Mathematics for solving problems



Microsoft Math Solver

Solve

Practice

Download

## Topics

- Pre-Algebra
- Algebra
- Trigonometry
- Calculus

$x^2$  Algebra Calculator

$\theta$  Trigonometry Calculator

$\int$  Calculus Calculator

$\begin{bmatrix} & \\ & \end{bmatrix}$  Matrix Calculator

$$\sin(x) + \cos(x)$$



Solve

### EVALUATE

$$\sin(x) + \cos(x)$$

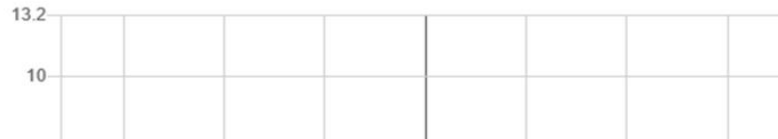


### DIFFERENTIATE W.R.T. X

$$\cos(x) - \sin(x)$$



### GRAPH



### EXAMPLES

Quadratic equation

$$x^2 - 4x - 5 = 0$$

Trigonometry

$$4 \sin \theta \cos \theta = 2 \sin \theta$$

Linear equation

$$y = 3x + 4$$

Arithmetic Activate Windows

$$699 * 533$$

Go to Settings to activate Windows

# OPEN BOARD

## Interactive white board used by PG Department of Mathematics

The screenshot shows an interactive whiteboard interface with a toolbar at the top containing icons for Styling (color, line, eraser), Backgrounds, Undo, Redo, Pages, Previous, Next, Erase, Board, Web, Documents, Show Desktop, and OpenBoard. The main workspace contains handwritten mathematical notes:

$[a]_n + [b]_n = [a+b]_n$   
 $[a]_n [b]_n = [ab]_n$

$a \equiv b \pmod{n} \Rightarrow a-b = M(n)$   
 $\Leftrightarrow n | a-b$

Group

- 1) closure property
- 2) Associativity
- 3) Existence of Identity element
- 4) Existence of Inverse

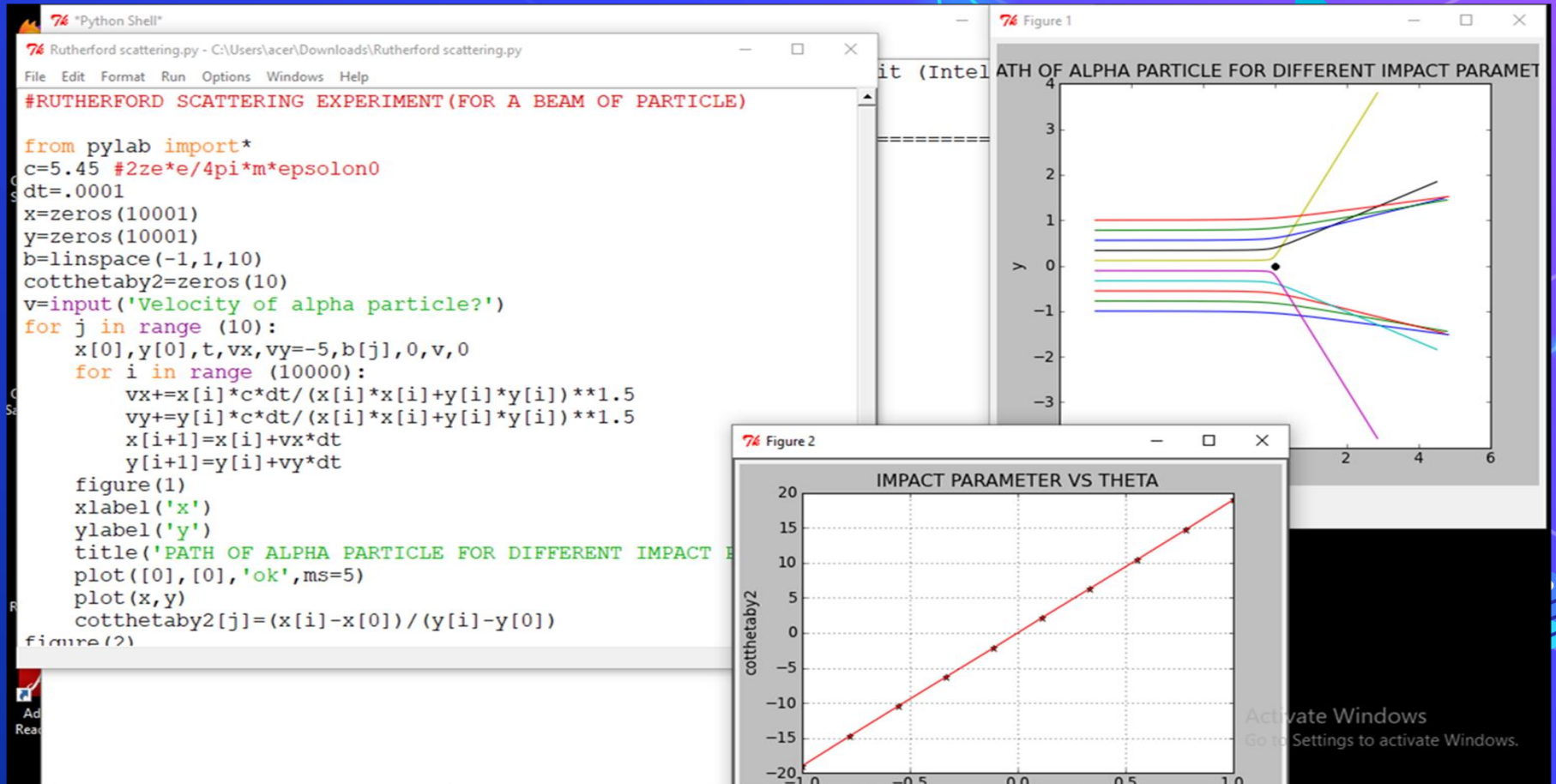
Additional text on the right side of the page includes "closure", "Associativity", and a red plus sign (+).

At the bottom left, the page number "6 / 9" and the time "10:00 PM" are visible. At the bottom right, there is a watermark for "Activate Windows" with the instruction "Go to Settings to activate Windows."



# PYTHON

## For data analysis and machine learning



Activate Windows  
Go to Settings to activate Windows.

# LATEX

High-quality typesetting system used by PG department of Physics

The screenshot shows the Overleaf online LaTeX editor interface. The browser address bar displays `overleaf.com/project/61a5b436a4e7de6dfa43fab1`. The editor title is "Elasticity". The interface includes a menu, navigation arrows, and a toolbar with buttons for "Review", "Share", "Submit", "History", and "Chat".

The left pane shows the source code in "Source" mode:

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3
4 \title{Elasticity}
5 \author{josnyrose }
6 \date{October 2021}
7
8 \begin{document}
9
10 \maketitle
11
12 \section{Introduction}
13 The property of matter by virtue of which the body regains its original shape or size
14 on the removal of the deforming force, is known as elasticity.
15
16 If a body completely recovers its original condition when the deforming forces are
17 removed, it is said to be perfectly elastic and if it completely retains its modified
18 form, it is said to be perfectly plastic.
19
20 Eg:\textit{Perfectly Elastic -Quartz}
21 \textit{Perfectly Plastic- Putty}
22 \subsection{Stress}
23 When a body is deformed under the influence of external forces, internal forces of
24 reactions are developed inside the body which tends to restore the body to its
25 original condition.
26
27 \end{document}
```

The right pane shows the rendered PDF output:

Elasticity

josnyrose

October 2021

### 1 Introduction

The property of matter by virtue of which the body regains its original shape or size on the removal of the deforming force, is known as elasticity.

If a body completely recovers its original condition when the deforming forces are removed, it is said to be perfectly elastic and if it completely retains its modified form, it is said to be perfectly plastic.

*Eg: Perfectly Elastic -Quartz Perfectly Plastic- Putty*

#### 1.1 Stress

When a body is deformed under the influence of external forces, internal forces of reactions are developed inside the body which tends to restore the body to its original condition.

The restoring force per unit

At the bottom right of the PDF, there is a watermark: "Activate Windows. Go to Settings to activate Windows." and a notification: "2 new notifications".

## SPSS TEST SELECTOR

Data analyser used by Department of Management studies



### SPSS Test Selector

CodeWarrior Medical

Everyone

This app is available for all of your devices

You can share this with your family. [Learn more about Family Library](#)

Add to wishlist

Install



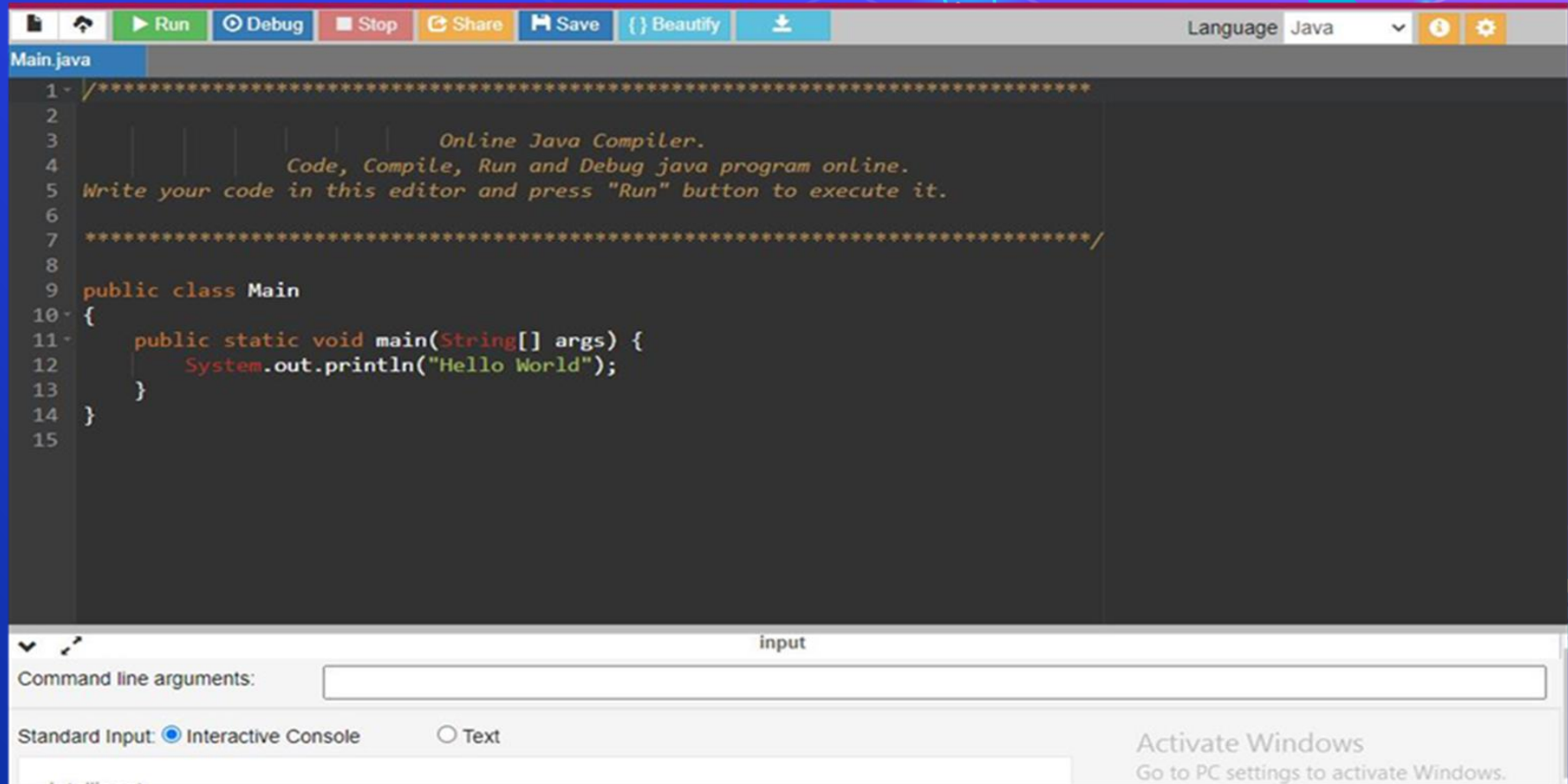
# FOLLDY APPLICATION

E-Governance in teaching learning used by department of Management studies and Commerce



# JAVA

Programming language used by PG Department of Computer Science



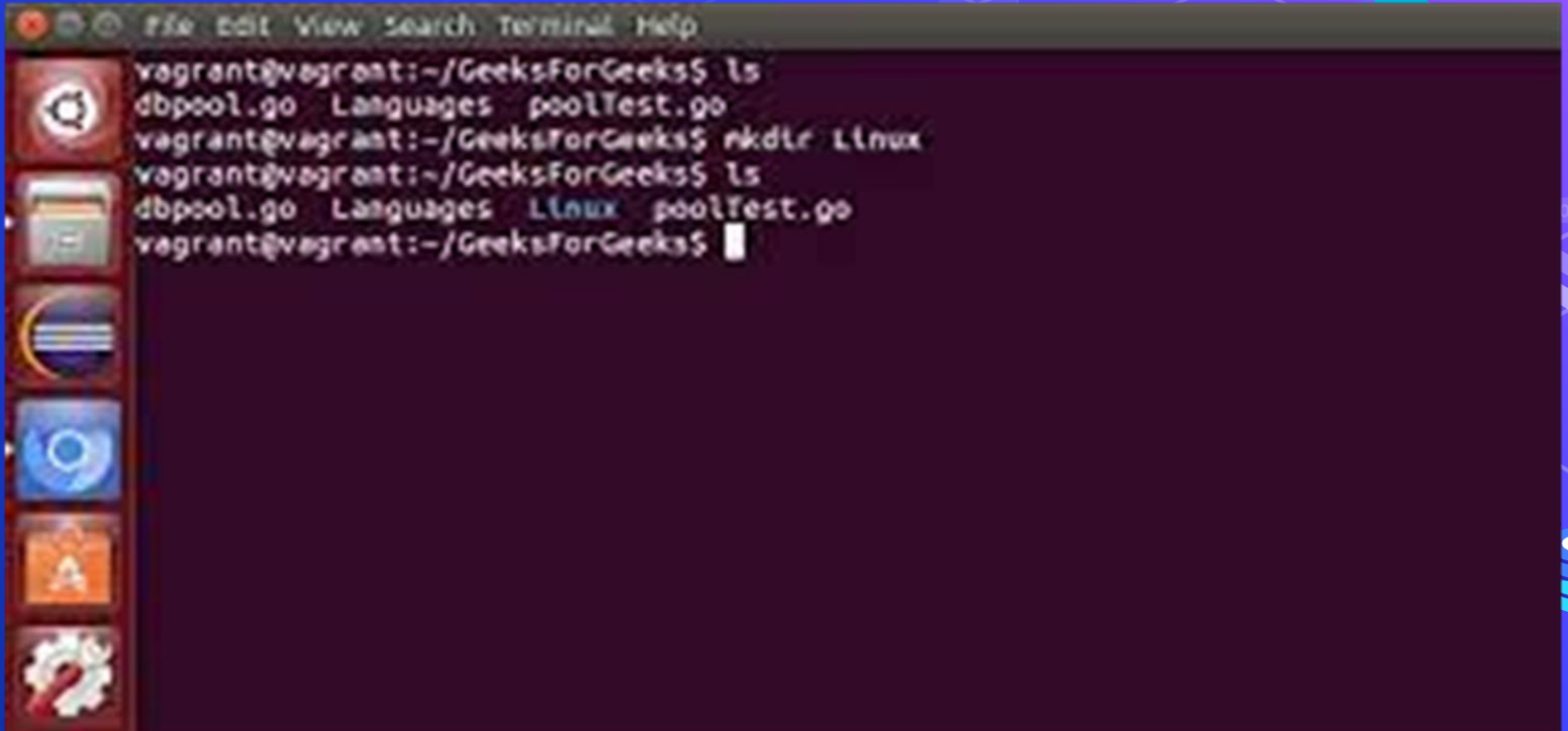
The image shows a screenshot of an IDE window titled "Main.java". The window has a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Java. The code in the editor is as follows:

```
1- /*****  
2  
3         Online Java Compiler.  
4         Code, Compile, Run and Debug java program online.  
5         Write your code in this editor and press "Run" button to execute it.  
6  
7         *****/  
8  
9 public class Main  
10 {  
11     public static void main(String[] args) {  
12         System.out.println("Hello World");  
13     }  
14 }  
15
```

Below the code editor, there is a console area with a dropdown menu showing "input". The console area includes a field for "Command line arguments:" and radio buttons for "Standard Input: Interactive Console" (selected) and "Text". A watermark "Activate Windows" is visible in the bottom right corner of the console area.

## SHELL SCRIPT

Used by PG Department of Computer Science for file manipulation, programme execution and printing text

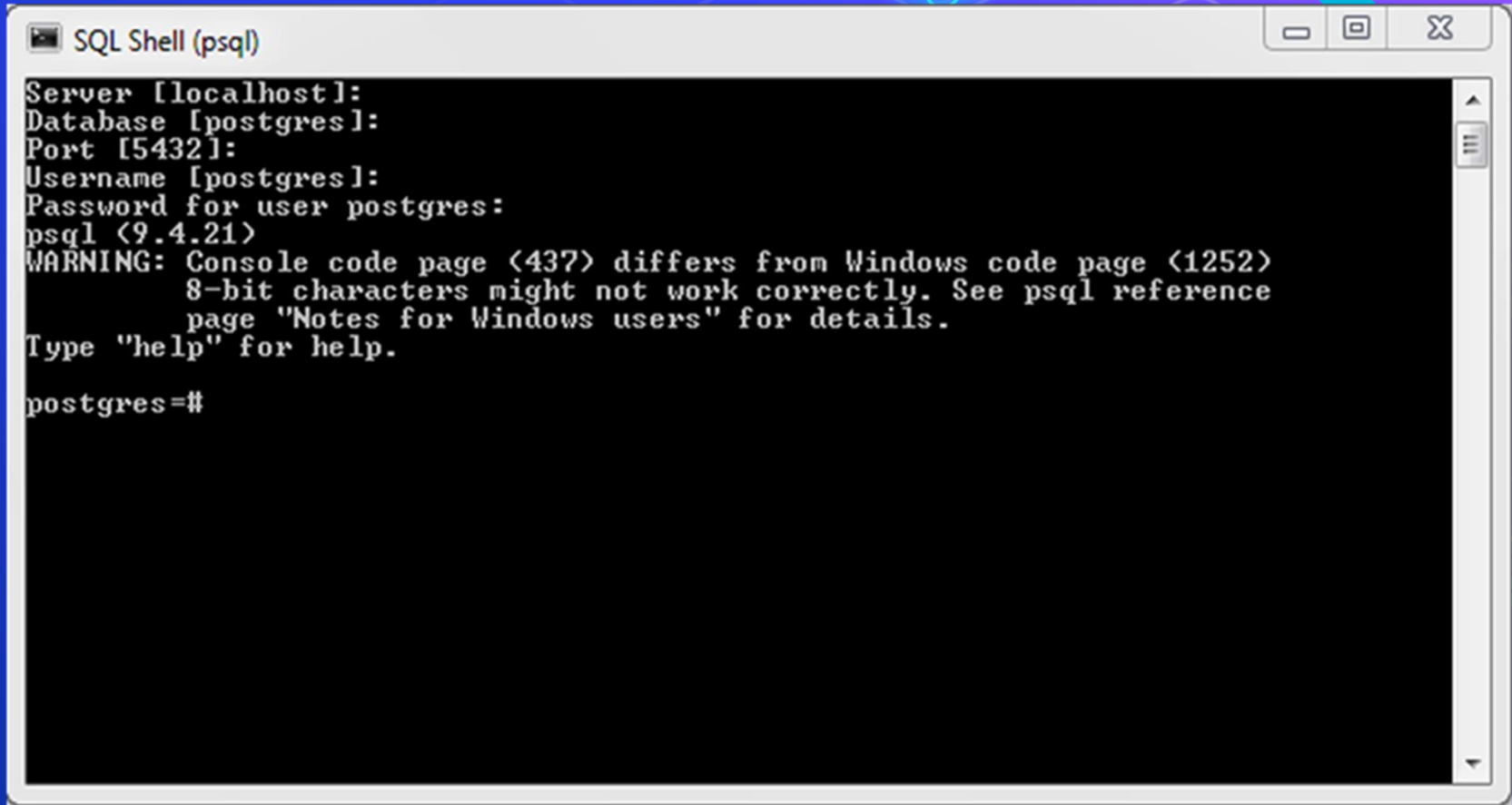
A screenshot of a terminal window with a dark background and light text. The window title bar shows 'File Edit View Search Terminal Help'. The terminal content shows a series of commands and their outputs:

```
vagrant@vagrant:~/GeeksForGeeks$ ls
dbpool.go Languages poolTest.go
vagrant@vagrant:~/GeeksForGeeks$ mkdir Linux
vagrant@vagrant:~/GeeksForGeeks$ ls
dbpool.go Languages Linux poolTest.go
vagrant@vagrant:~/GeeksForGeeks$
```

On the left side of the terminal window, there is a vertical sidebar containing several icons: a refresh icon, a folder icon, a terminal icon, a search icon, a power icon, and a gear icon. On the right side of the terminal window, there is a small icon of a database cylinder.

## postgreSQL

Open source object-relational database system used by PG Department of Computer Science ✓

A screenshot of a Windows-style window titled "SQL Shell (psql)". The window has a standard title bar with minimize, maximize, and close buttons. The main content area is a black terminal window with white text. The text shows the PostgreSQL connection process: it prompts for server, database, port, and username, then asks for a password. It displays the version "psql (9.4.21)" and a warning about console code page differences. The prompt "postgres=#" is visible at the bottom.

```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (9.4.21)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.
postgres=#
```

# G-SUITE

Teaching resources to empower learning used by all faculty members

The image shows a Gmail interface on a dark wood-grain background. On the left, there is a navigation sidebar with sections for 'Compose', 'Mail' (Inbox: 56, Starred, Snoozed), 'Chat' (No conversations, Start a chat), and 'Spaces' (No spaces yet, Create or find a space). The main area displays an inbox list with the following entries:

Sender	Subject
AKHIL KADENGAL	Document from AKHIL KADENGAL - Scan 04 Jan 2022.pdf
bijithra nc	Project details final year(2020-21)
MOHAMED JABIR	Fwd: Industry MoU - Forwarded message - From: Saliha Isma
criterion 1 (via Go.	Share request for "Msc CS PROJECT.xlsx.pdf" - Share an item? majliscri
StackHub MASC	(no subject)
StackHub MASC (via .	Document shared with you: "s/w" - stackhubmasc@gmail.com shared a d
StackHub MASC	Evaluation Policy
Deepesh VP	2020 1ST YEAR BSC AND BCA INTERNAL UPLOADED -- Deepesh V P As
***ChITHIRa.P.c***	Feedback forms-CS
Deepesh VP 2	(no subject) - Forwarded message - From: Deepesh VP <deep
akhila jayasankar	Fwd: study camp toc unit 3 - Forwarded message - From: Manjula Hari <manjulack15@g...
Jabl Mohammed	(no subject)

On the right side, a 'Manage your Google Account' overlay is visible. It features the text 'This account is managed by masc.edu.in. Learn more' at the top, followed by the Masc University logo and the email address 'csdept@masc.edu.in'. Below this, there is a list of signed-out accounts:

- Jincy P.B (jincy2727@gmail.com) - Signed out
- JINCY P B (jincyp@masc.edu.in) - Signed out
- CS&BCA 20-21 (csbca20.21@gmail.com) - Signed out
- CS&BCA 21-22 (csbca21.22@gmail.com) - Signed out

At the bottom of the overlay, there is a partially visible 'Activate Windows' watermark.



# ANDROID STUDIO

## Tools used for App development used by PG Department of Computer Science

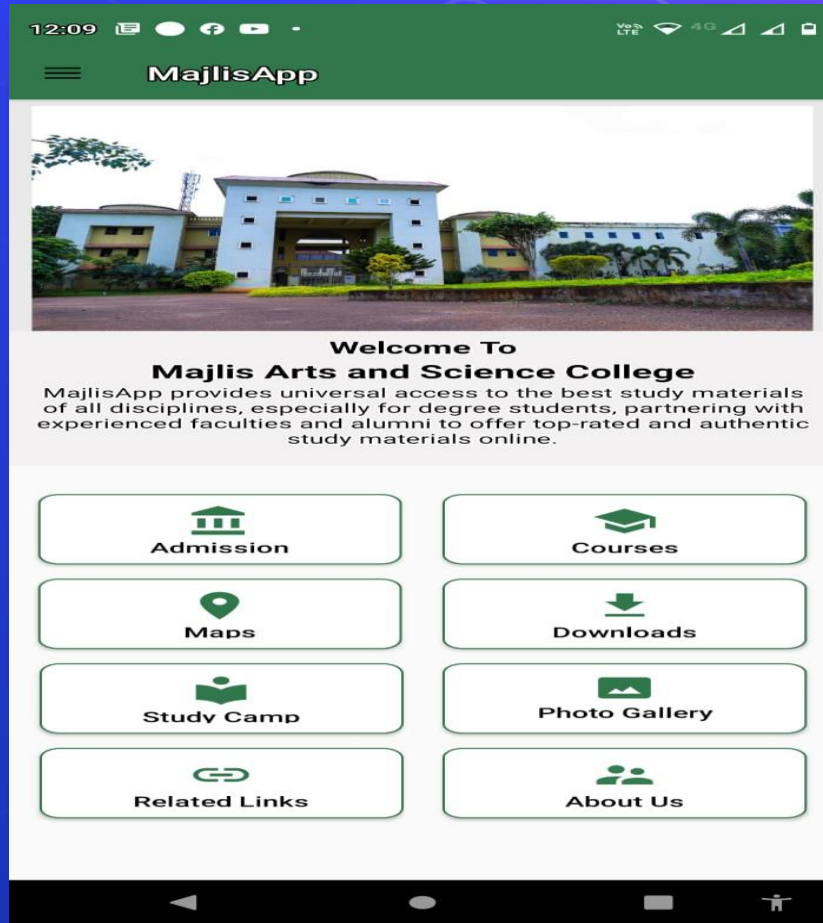
The screenshot displays the Android Studio interface. On the left, the Project view shows the file structure for 'VolleyRequest'.

```
1 package com.gsrikar.volleyrequest
2
3 import ...
4
5
6
7
8
9
10
11
12
13
14 class MenuItemDecoration(private val splitMargin: Int) : RecyclerView.ItemDecoration() {
15
16     companion object {
17         // Log cat tag
18         private val TAG :String = MenuItemDecoration::class.java.simpleName
19
20         // True for debug builds and false otherwise
21         private val DBG :Boolean = BuildConfig.DEBUG
22     }
23
24     private val paint :Paint = Paint().apply { this.Paint
25         isAntiAlias = true
26         color = Color.BLACK
27     }
28
29     override fun getItemOffsets(outRect: Rect, view: View, parent: RecyclerView.State) {
30         super.getItemOffsets(outRect, view, parent, state)
31         // Get the item position
32         val position :Int = parent.getChildAdapterPosition(view)
33         if (DBG) Log.d(TAG, msg: "Child Position: $position")
34         // Get the total count
35         val count :Int = state.itemCount
36         if (DBG) Log.d(TAG, msg: "Child Count: $count")
37
38         if (position == count - 2) {
39             outRect.top = splitMargin
40         }
41     }
42 }
```

The right side of the screen shows a virtual device (Pixel 2 API 30 Alpha) displaying the app's login screen. The screen has a purple header with the text 'VolleyRequest'. Below the header, there are two input fields: 'Email Address' and 'Password'. A purple 'LOGIN' button is positioned below the password field. The status bar at the top of the device shows the time as 6:49.

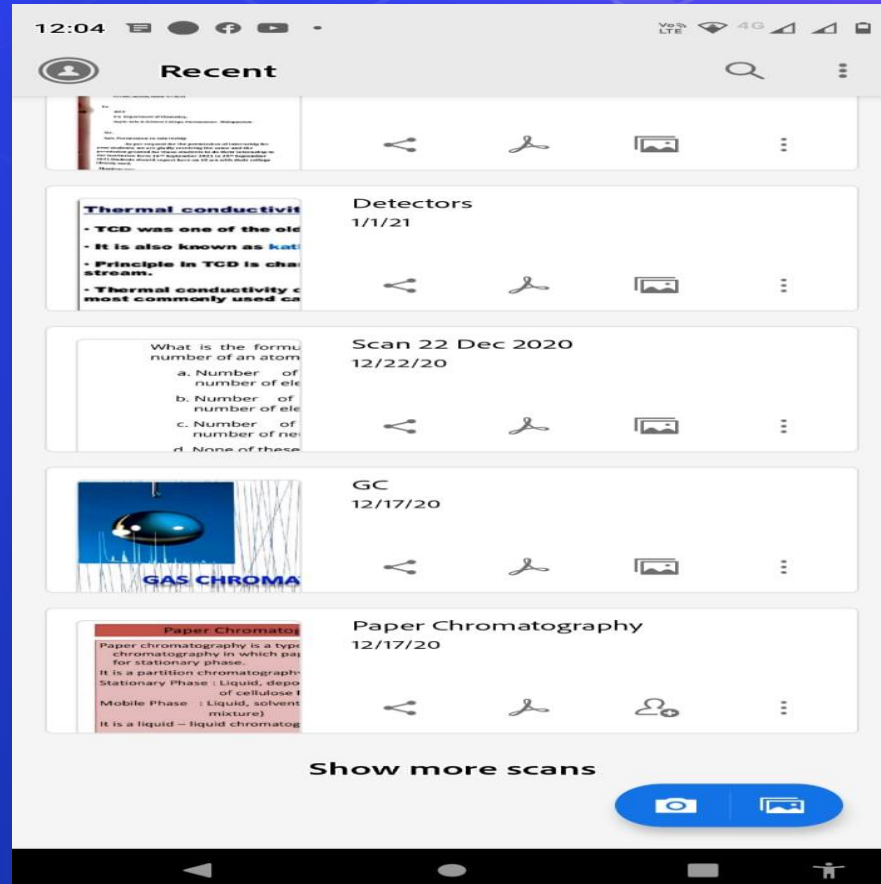
At the bottom of the IDE, the status bar indicates 'Launch succeeded (moments ago)', '23:1 LF UTF-8 4 spaces master Material Oceanic', and various tool icons like Run, TODO, Problems, App Inspection, Logcat, Build, Terminal, and Profiler.

# Majlis App



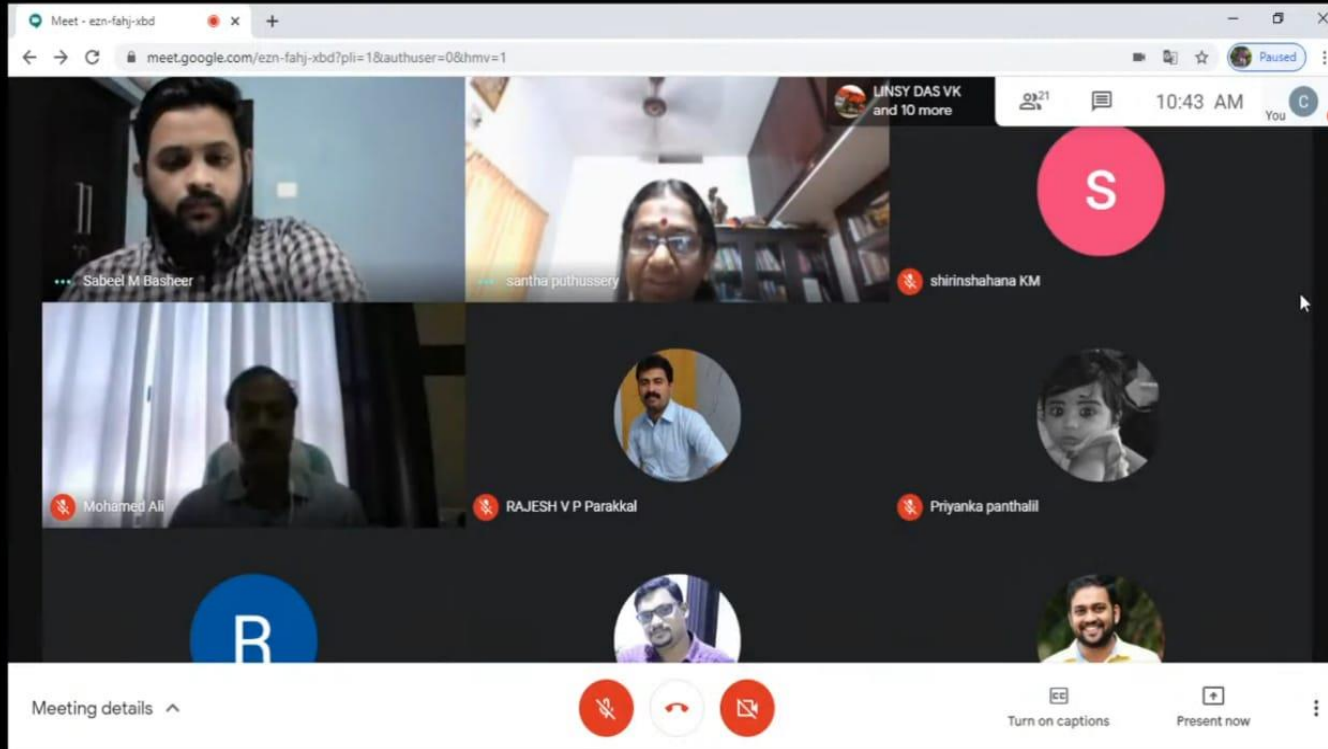
# Adobe Scanner

## For generating e-lessons by all departments



# OBS Studio

Used by all departments for live streaming in youTube



# WPS office

Used by all teachers for editing and sharing e-lessons

12:32 PM

Edit

- 1) Ferritin is the principle store of Fe in animals other than haem proteins (Haemoglobin and myoglobin)
- 2) When Ferritin is fully loaded, contains 20 percent Fe by mass.
- 3) Ferritin is present in all type of organisms.
- 4) In mammals it is found particularly in the spleen and in blood.
- 5) Ferritin has two components a 'mineral core' that contains up to 4500 Fe atoms and a protein shell called 'Apo ferritin'
- 6) Apo ferritin is formed by the treatment of Ferritin with reducing agents and an Fe(II) chelating ligand.
- 7) Apo ferritin have avg molar masses in the range 400 to 600 kDa.
- 8) Shell consists of 24 subunits that link together like a soccer ball to form a hollow sphere with two-fold, three-fold and four-fold symmetry axes.
- 9) Each subunit consists of a bundle of four long and one short  $\alpha$ -helices, with a loop that forms antiparallel  $\beta$  sheet with a neighbouring subunit.

Scanned with CamScanner

- 10) The mineral core is composed of hydrated Fe(III) oxide with varying amounts of phosphate.
- 11) The structure as revealed by X-ray or electron diffraction resembles that of the mineral ferrihydrite,  $5\text{Fe}_2\text{O}_3 \cdot 9\text{H}_2\text{O}$ .
- 12) The structure has a hcp array of  $\text{O}^{2-}$  and  $\text{OH}^-$  ions with Fe(III) ions in the interstices.

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