

# Saranathan College of Engineering, Trichy-12

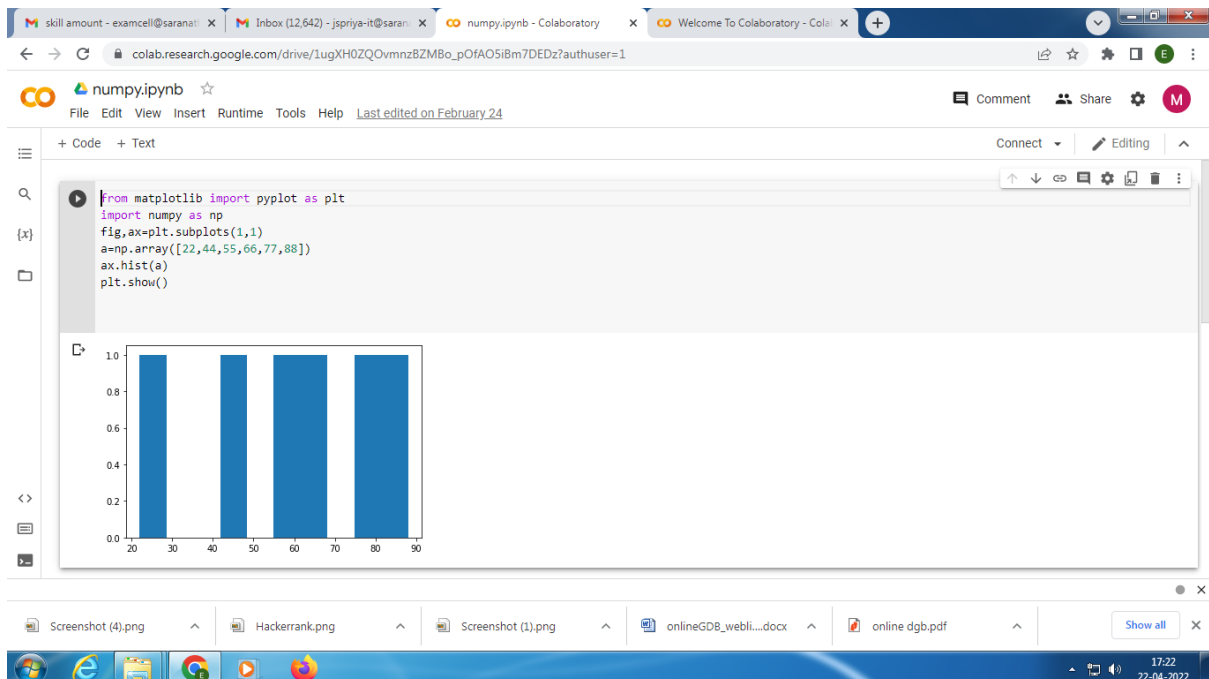
## Department of IT

Colab notebooks allow you to combine **executable code** and **rich text** in a single document, along with **images**, **HTML**, **LaTeX** and more. When you create your own Colab notebooks, they are stored in your Google Drive account. With Colab you can harness the full power of popular Python libraries to analyze and visualize data. The code cell below uses different package libraries like **numpy** to generate some random data, and uses **matplotlib** to visualize it. To edit the code, just click the cell and start editing.

It is an innovative way to motivate the students to practice coding and submit coding assignments online.

Subcode: GE3151 & GE 3171 Problem solving and Python programming and Laboratory

Faculty: Ms.J.Sangeethapriya, AP/IT & K.Muthukarpae, AP/IT



The screenshot displays a Google Colab notebook interface. The browser address bar shows the URL: `colab.research.google.com/drive/1ugXH0ZQOvmnzBZMBo_pOfAOSiBm7DEDz?authuser=1`. The notebook title is "numpy.ipynb" and it was last edited on February 24. The code cell contains the following Python code:

```
from matplotlib import pyplot as plt
import numpy as np
fig,ax=plt.subplots(1,1)
a=np.array([22,44,55,66,77,88])
ax.hist(a)
plt.show()
```

The output of the code is a bar chart with four bars. The x-axis ranges from 20 to 90, and the y-axis ranges from 0.0 to 1.0. The bars represent the frequency of values in the array [22, 44, 55, 66, 77, 88].

Value	Frequency
22	1.0
44	1.0
55	1.0
66	1.0
77	1.0
88	1.0

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