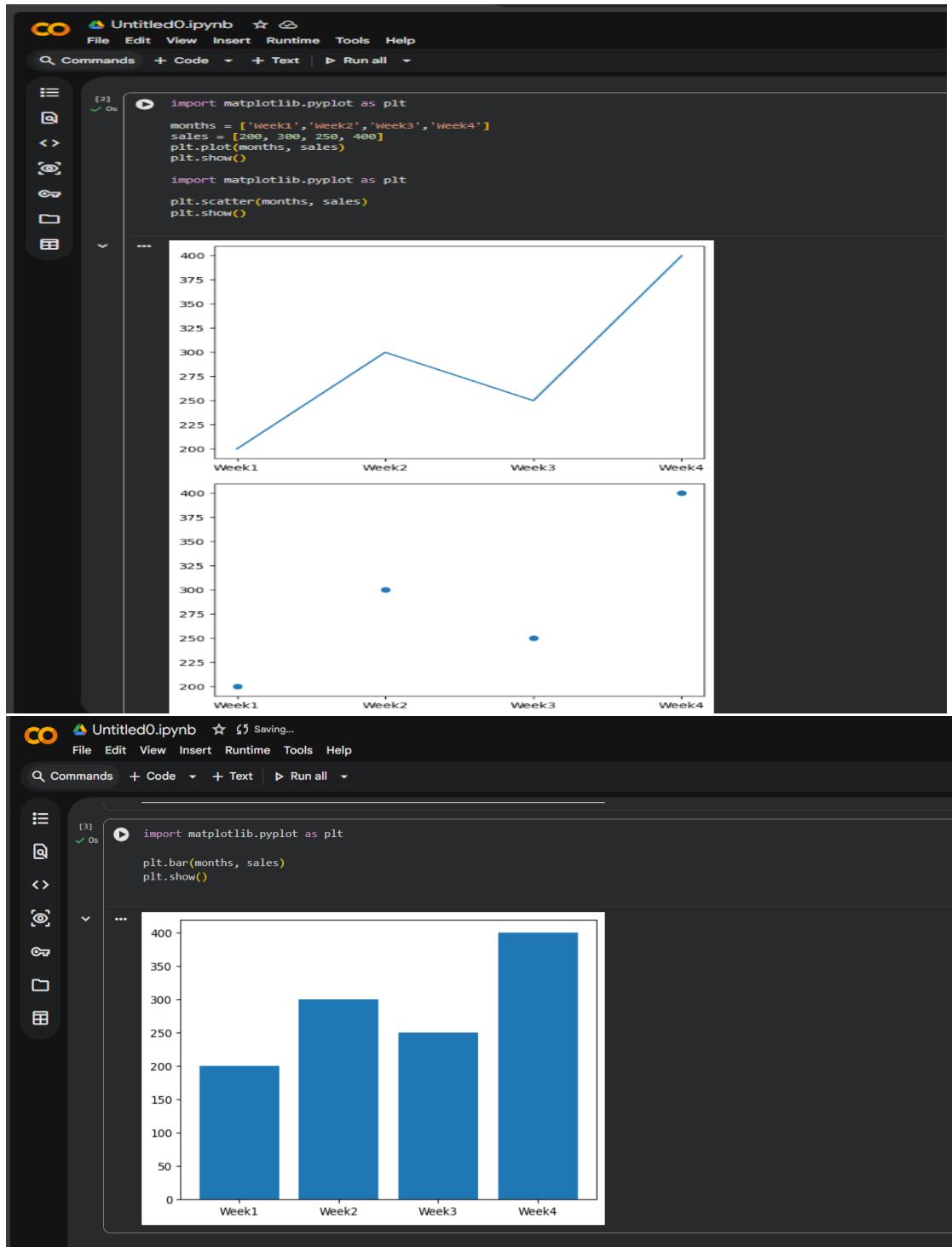


DAY – 3

LAB OUTPUTS : 11-15 Experiments [06.02.2026]

Exp – 11



Exp - 12

Untitled0.ipynb

File Edit View Insert Runtime Tools Help

Commands + Code + Text Run all

```
[4] ✓ 0s
import matplotlib.pyplot as plt
temp = [22, 25, 28, 30, 32, 35]
plt.plot(temp)
plt.show()

import matplotlib.pyplot as plt

rainfall = [80, 90, 90, 120, 150, 100]
plt.scatter(range(len(rainfall)), rainfall)
plt.show()
```

**

A line plot showing temperature increasing from 22 to 35. The x-axis ranges from 0 to 5, and the y-axis ranges from 22 to 34. The data points are connected by straight line segments.

Index	Temperature
0	22
1	25
2	28
3	30
4	32
5	35

A scatter plot showing rainfall values at different indices. The x-axis ranges from 0 to 5, and the y-axis ranges from 60 to 140. The data points are scattered across the plot.

Index	Rainfall
0	80
1	60
2	90
3	120
4	150
5	100

Variables Terminal

Exp - 13

The screenshot shows a Jupyter Notebook cell with the following Python code:

```
import string
from collections import Counter

# Create the file first
with open("sample_text.txt", "w") as f:
    f.write("This is a sample text. This text is for frequency distribution.")

# Read the file
with open("sample_text.txt", "r") as file:
    text = file.read().lower()

# Process and count words
words = text.translate(str.maketrans("", "", string.punctuation)).split()
word_freq = Counter(words)
print(word_freq)
```

The output of the code is displayed below the cell:

```
... Counter({'this': 2, 'is': 2, 'text': 2, 'a': 1, 'sample': 1, 'for': 1, 'frequency': 1, 'distribution': 1})
```

Exp - 14

The screenshot shows a Jupyter Notebook cell with the following Python code:

```
import pandas as pd

data = pd.DataFrame({'age':[22,25,30,25,22,30,35]})
age_freq = data['age'].value_counts()
print(age_freq)
```

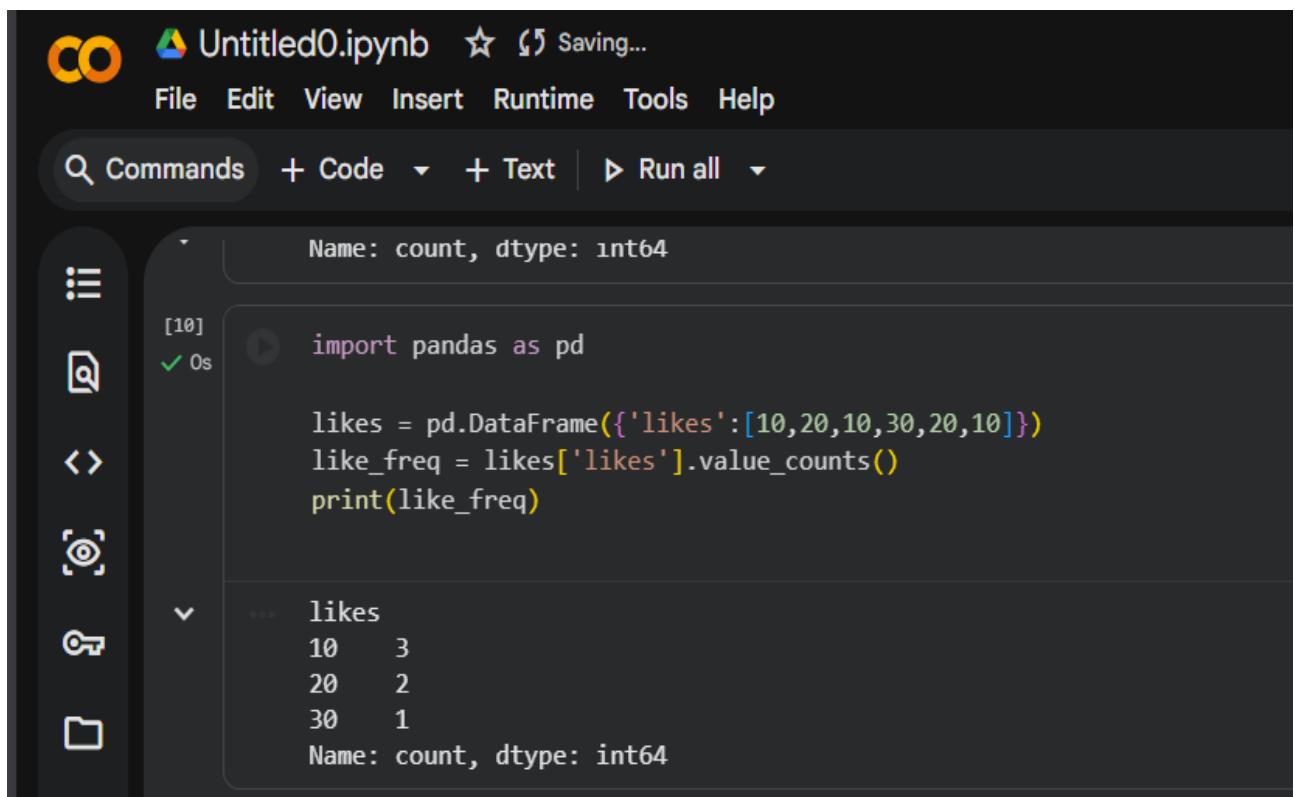
The output of the code is displayed below the cell:

age	count
22	2
25	2
30	2
35	1

Additional information at the bottom:

```
Name: count, dtype: int64
```

Exp – 15



The screenshot shows a Jupyter Notebook interface with the following details:

- Title Bar:** Untitled0.ipynb, Saving...
- Menu Bar:** File, Edit, View, Insert, Runtime, Tools, Help
- Toolbar:** Commands, + Code, + Text, Run all
- Code Cell [10]:** Contains the following Python code:

```
import pandas as pd

likes = pd.DataFrame({'likes':[10,20,10,30,20,10]})
like_freq = likes['likes'].value_counts()
print(like_freq)
```
- Output Cell:** Displays the output of the code cell, showing a Pandas Series named like_freq:

likes	count
10	3
20	2
30	1

Name: count, dtype: int64
- Sidebar Icons:** List, Find, Diff, Watch, Folder.