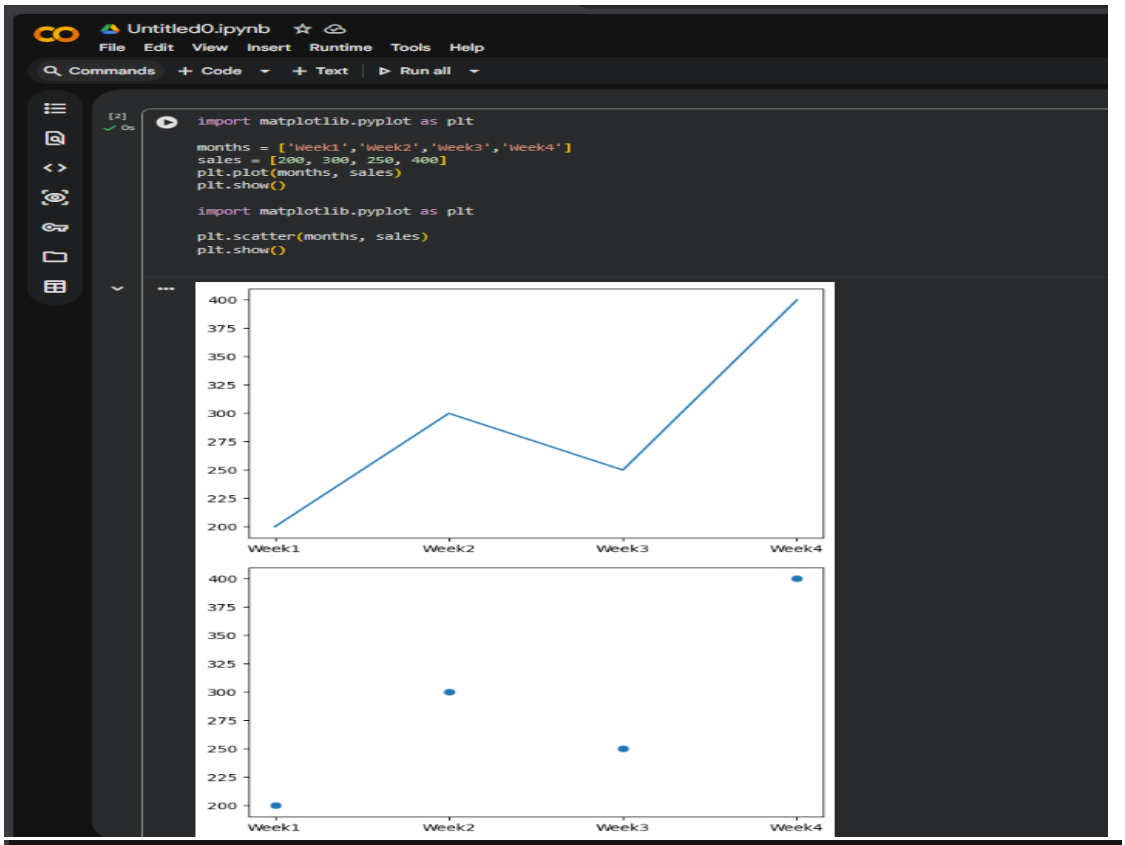
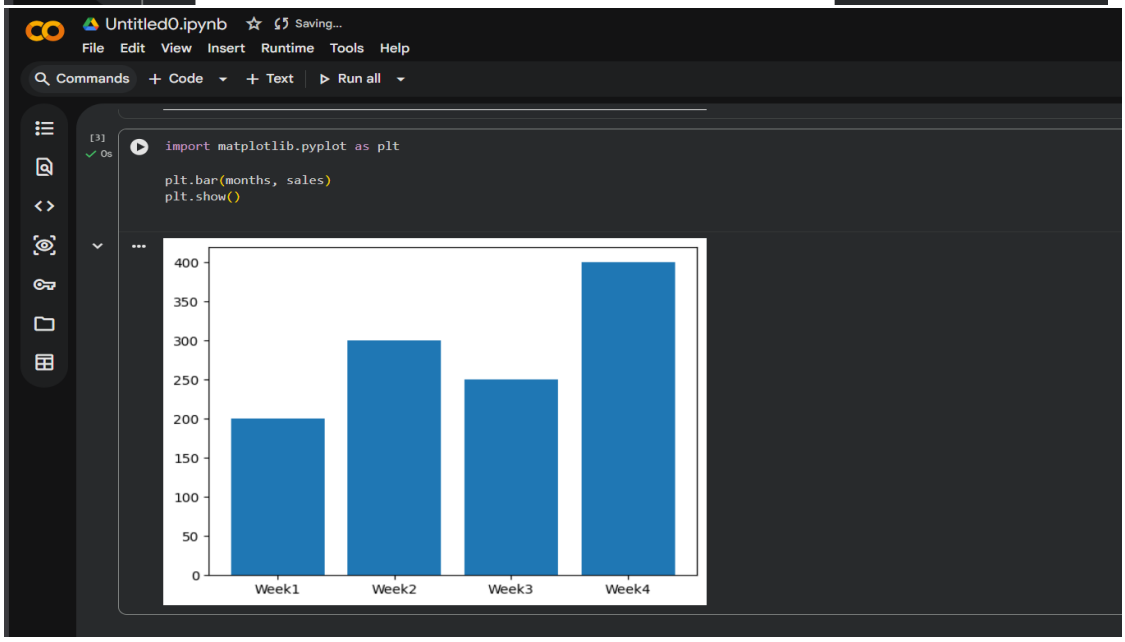
# DAY – 3

# LAB OUTPUTS : 11-15 Experiments [06.02.2026]

Exp – 11



Exp - 12

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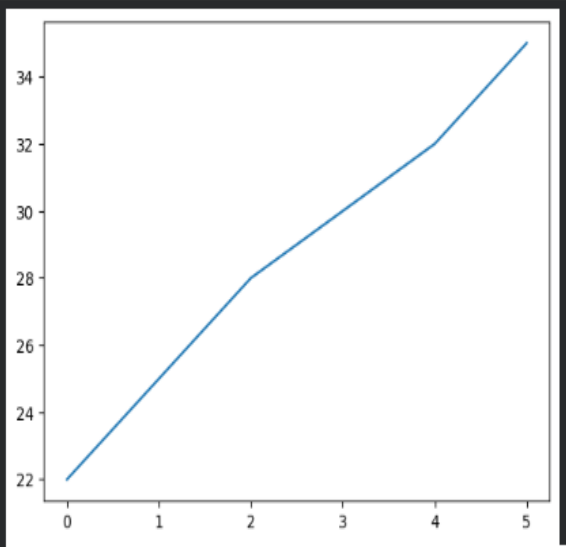
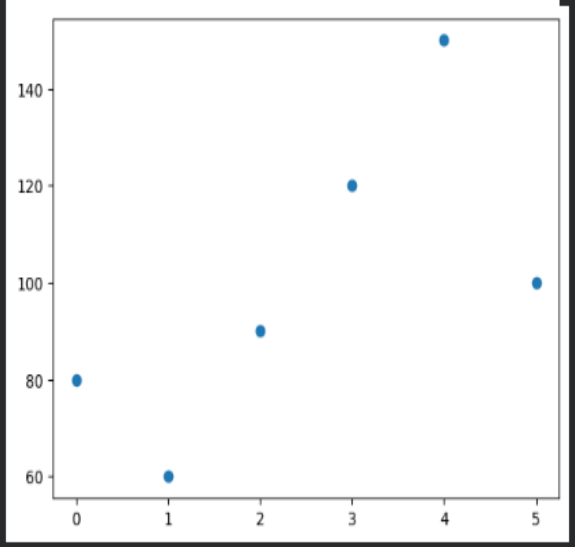
Commands + Code + Text Run all

[4] ✓ 0s

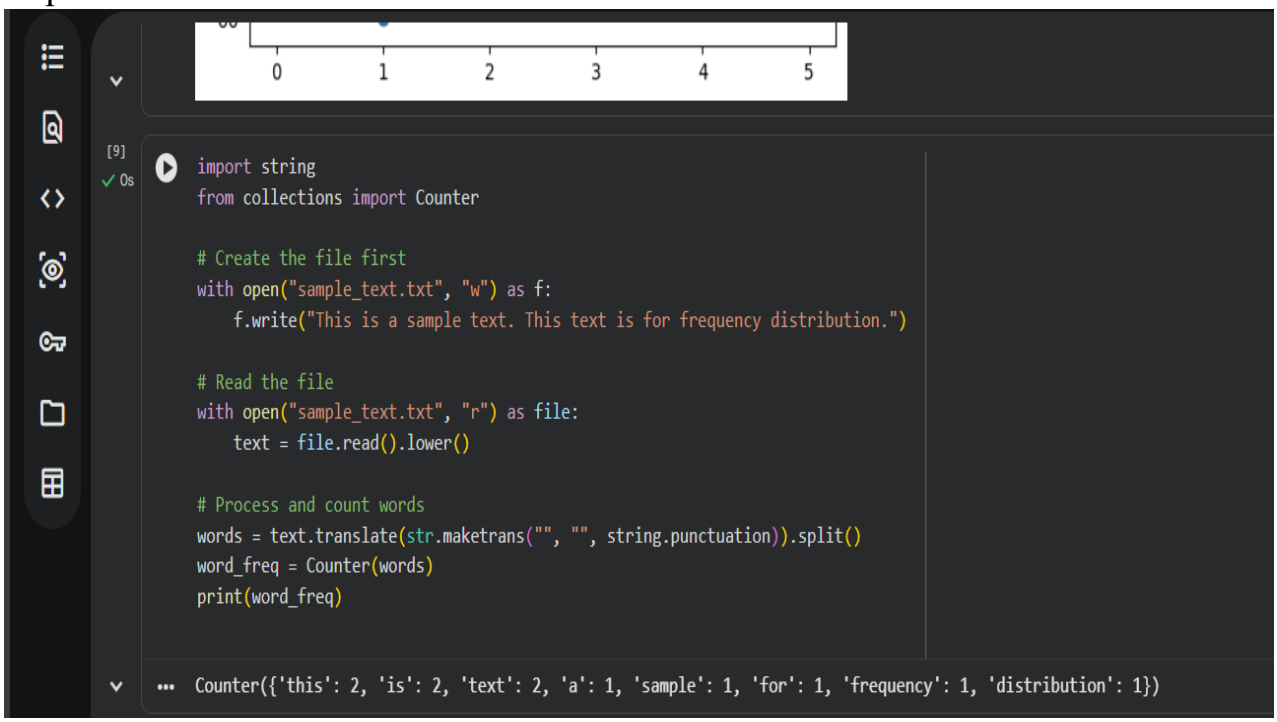
```
import matplotlib.pyplot as plt

temp = [22, 25, 28, 30, 32, 35]
plt.plot(temp)
plt.show()

import matplotlib.pyplot as plt

rainfall = [80, 60, 90, 120, 150, 100]
plt.scatter(range(len(rainfall)), rainfall)
plt.show()
```



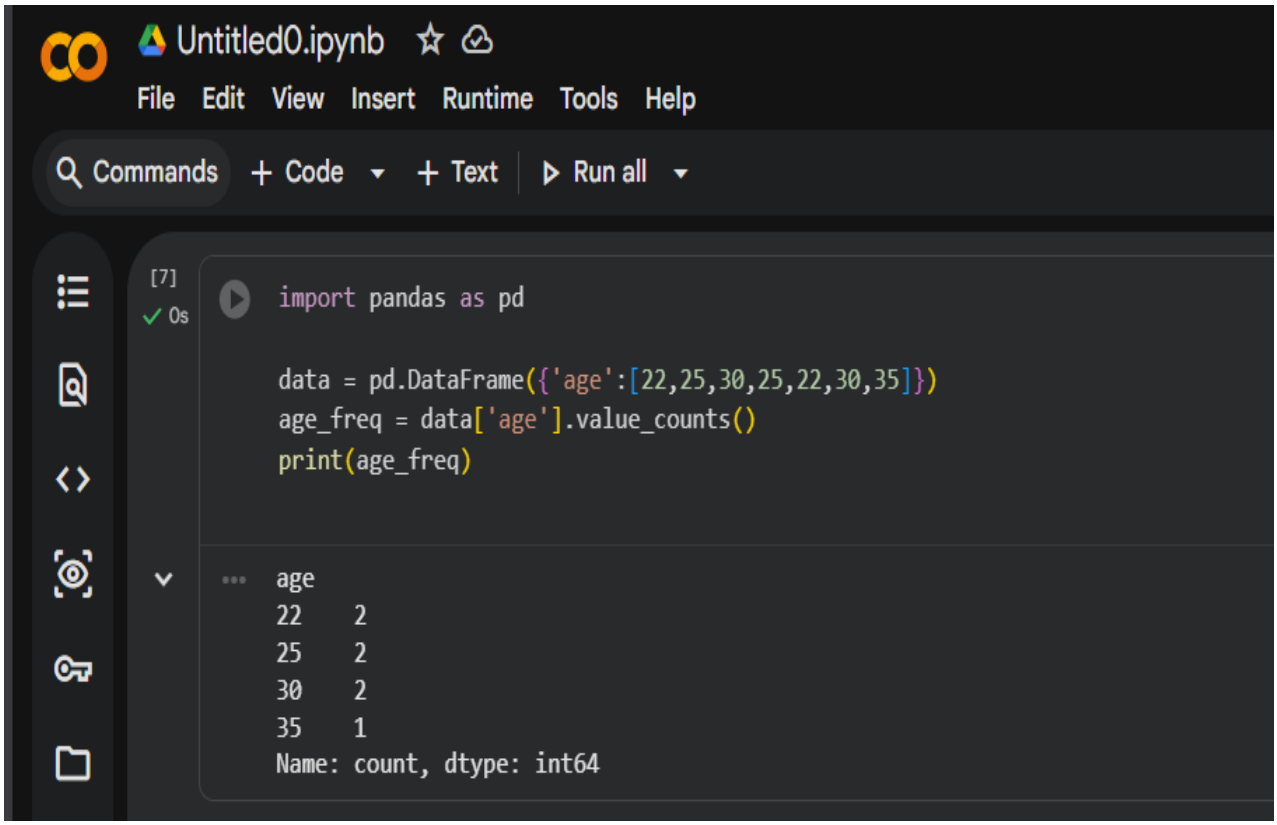




Variables Terminal

Exp - 13


0
1
2
3
4
5
[9]
0s
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)
Counter({'this': 2, 'is': 2, 'text': 2, 'a': 1, 'sample': 1, 'for': 1, 'frequency': 1, 'distribution': 1})

Exp – 14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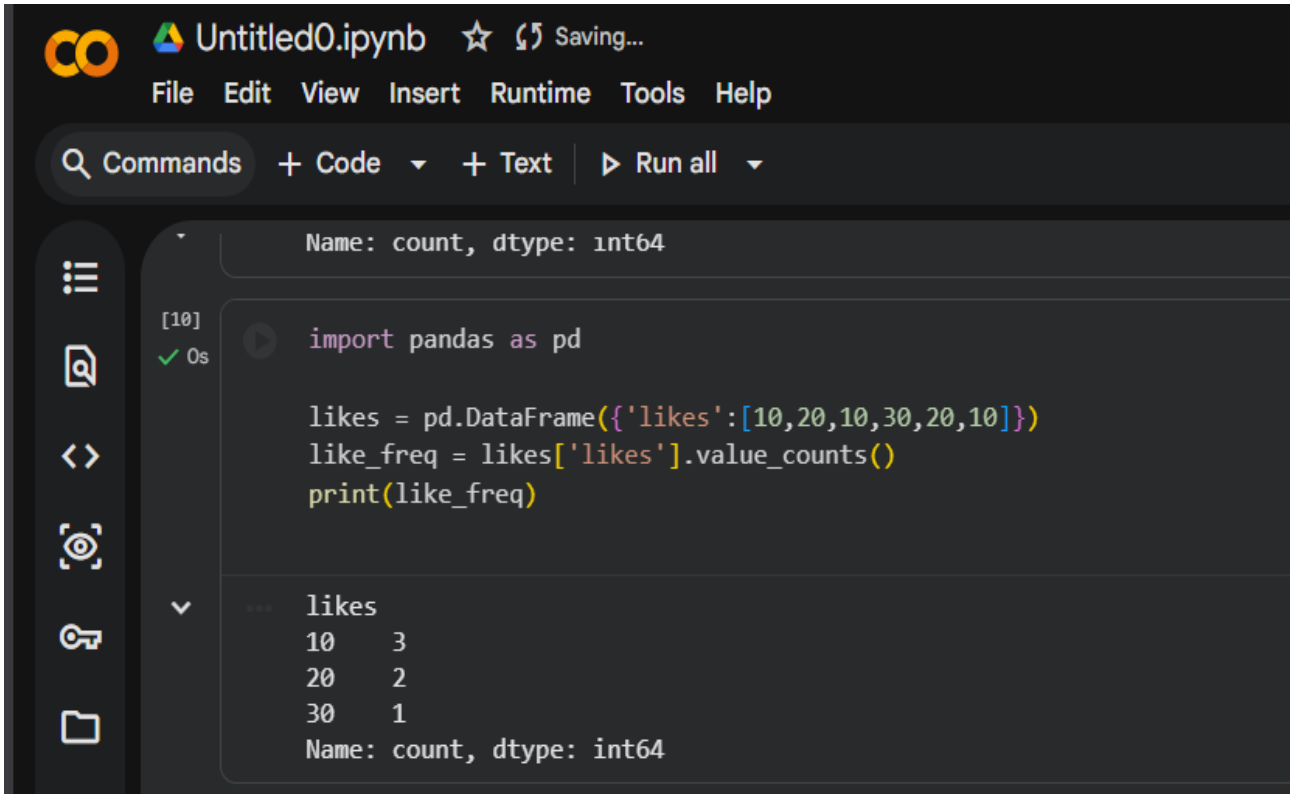
Commands + Code + Text Run all
[7]
0s
import pandas as pd
data = pd.DataFrame({'age':[22,25,30,25,22,30,35]})
age_freq = data['age'].value_counts()
print(age_freq)
age
22 2
25 2
30 2
35 1
Name: count, dtype: int64

Exp – 15


Untitled0.ipynb
Saving...
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Commands + Code + Text Run all
Name: count, dtype: int64
[10]
0s
import pandas as pd
likes = pd.DataFrame({'likes':[10,20,10,30,20,10]})
like_freq = likes['likes'].value_counts()
print(like_freq)
likes
10 3
20 2
30 1
Name: count, dtype: int64