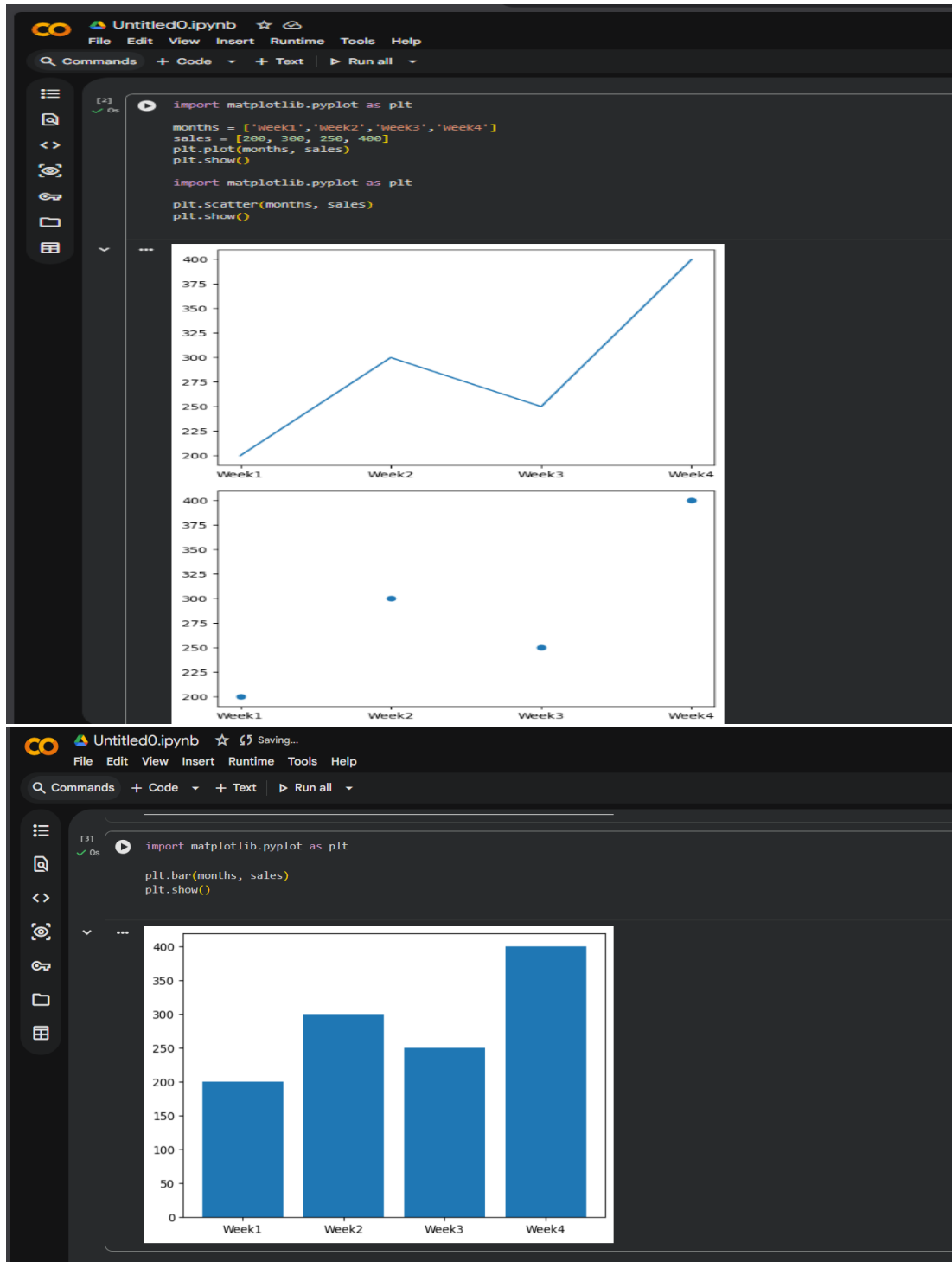


DAY – 3

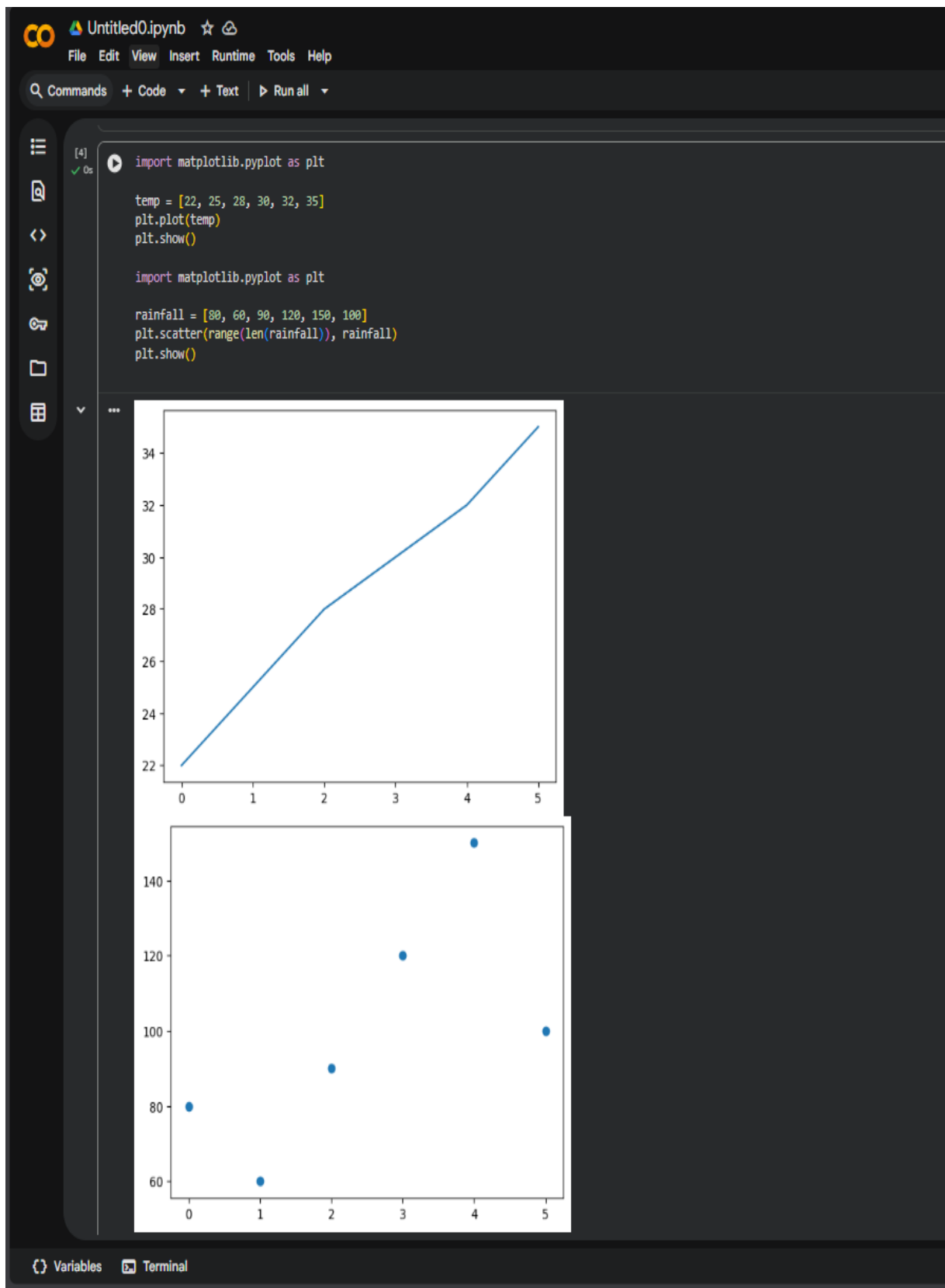
LAB OUTPUTS : 11-15 Experiments

[06.02.2026]

Exp – 11



Exp - 12



Exp - 13



The screenshot shows a code editor with a dark theme. On the left is a sidebar with icons for file explorer, search, and other tools. The main area contains Python code for creating a text file, reading it, and counting word frequencies using the Counter class from the collections module. A progress bar at the top indicates the execution status. The output at the bottom shows the resulting Counter object.

```
[9]
✓ 0s
import string
from collections import Counter

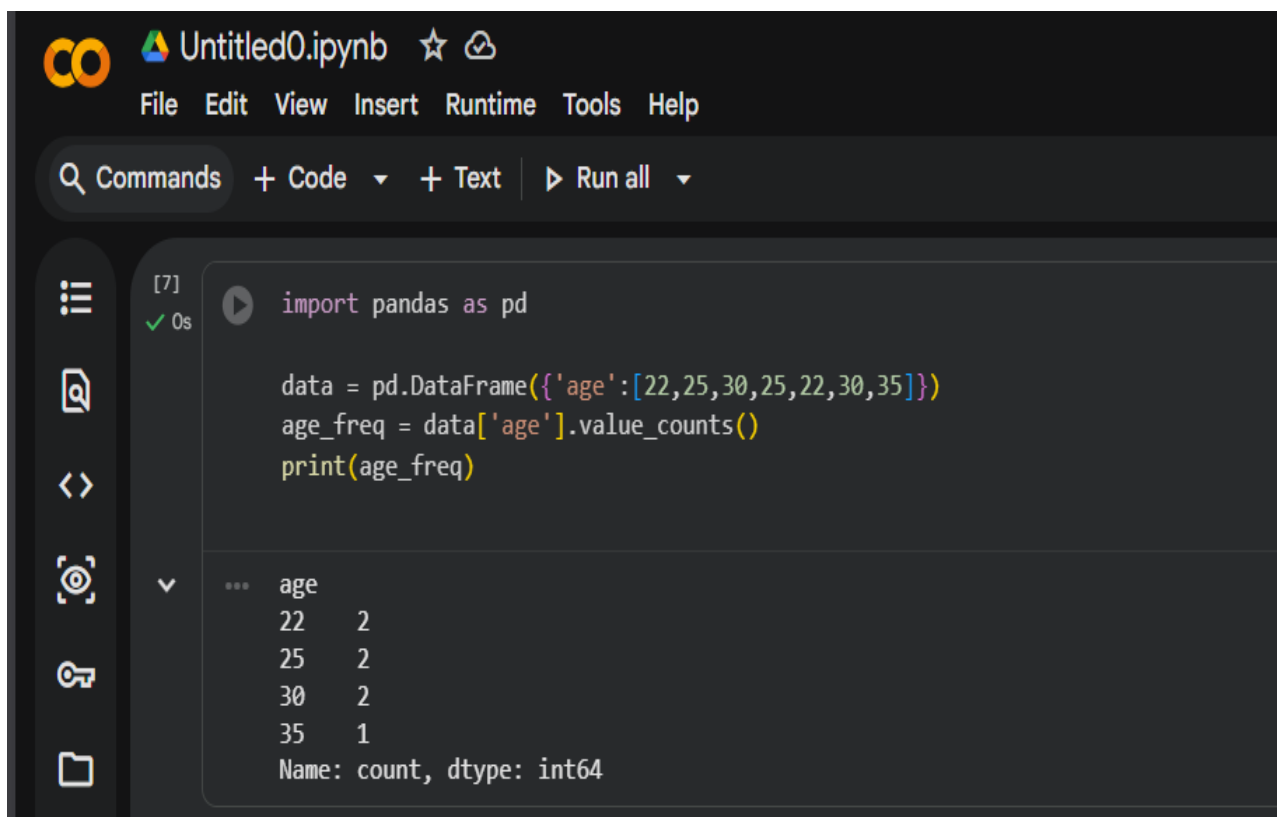
# Create the file first
with open("sample_text.txt", "w") as f:
    f.write("This is a sample text. This text is for frequency distribution.")

# 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



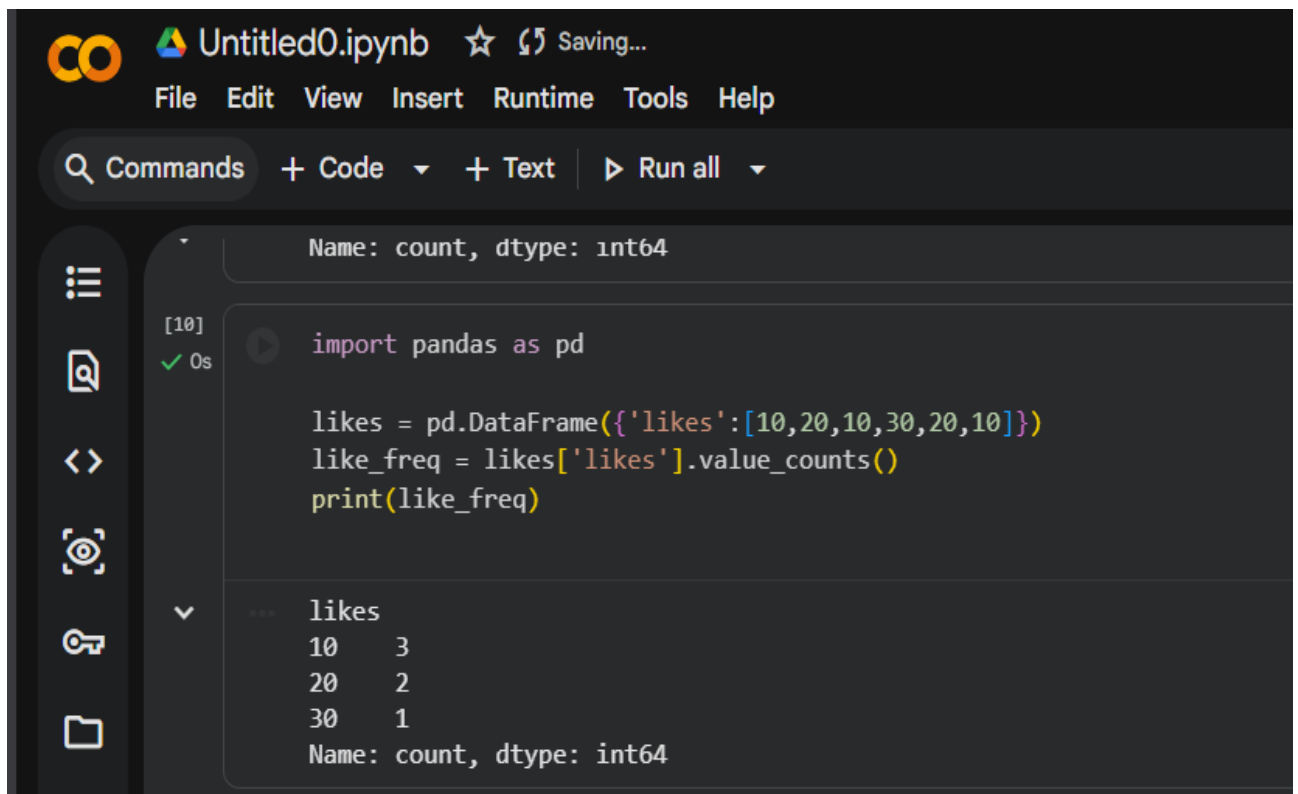
The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar includes the Jupyter logo, the file name 'Untitled0.ipynb', and a menu bar with options like File, Edit, View, Insert, Runtime, Tools, and Help. Below the menu bar is a search bar and buttons for 'Commands', '+ Code', '+ Text', and 'Run all'. The main area contains a code cell with pandas code for creating a DataFrame, calculating value counts for the 'age' column, and printing the result. The output shows a Series with age values and their counts, along with the data type.

```
[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



The screenshot shows a Jupyter Notebook window titled "Untitled0.ipynb". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". Below the menu is a toolbar with "Commands", "+ Code", "+ Text", and "Run all". The notebook contains a single code cell with the following Python code:

```
[10] import pandas as pd

likes = pd.DataFrame({'likes': [10, 20, 10, 30, 20, 10]})
like_freq = likes['likes'].value_counts()
print(like_freq)
```

The output of the code is displayed below the code cell:

```
... likes
10    3
20    2
30    1
Name: count, dtype: int64
```

The output shows a Series named "likes" with three unique values: 10, 20, and 30. The frequency of each value is 3, 2, and 1 respectively. The data type is "count" and the dtype is "int64".