

CSI3007- ADVANCE PYTHON PROGRAMMING

LAB ASSIGNMENT- 18

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INTRODUCTION:

Visual Studio Code is a lightweight, open-source code editor. It is used for writing, editing, debugging, and running code in many programming languages. It is highly customizable with extensions. It has Integrated Git support. It is versatile, fast and customizable.

Q1. SENTIMENTAL ANALYSIS

```
sentimental_analysis.py 1 • Welcome to Settings Sync
C: > Users > Anushree > sentimental_analysis.py > ...
1 from textblob import TextBlob # importing necessary modules
2 text = input("Enter a sentence: ") # user input to analysis the type of sentiment
3 blob = TextBlob(text) #creates a TextBlob object from a string of text.
4 print("Polarity:", blob.sentiment.polarity) #It gives you a numerical score representing the sentiment polarity of the text.
5 print("Subjectivity:", blob.sentiment.subjectivity) #It returns a score between 0 and 1 showing how subjective or opinion-based the text
6 if blob.sentiment.polarity > 0:
7     print("Sentiment: Positive") #checking if it is positive , negative or neutral
8 elif blob.sentiment.polarity < 0:
9     print("Sentiment: Negative")
10 else:
11     print("Sentiment: Neutral")
```

OUTPUT:

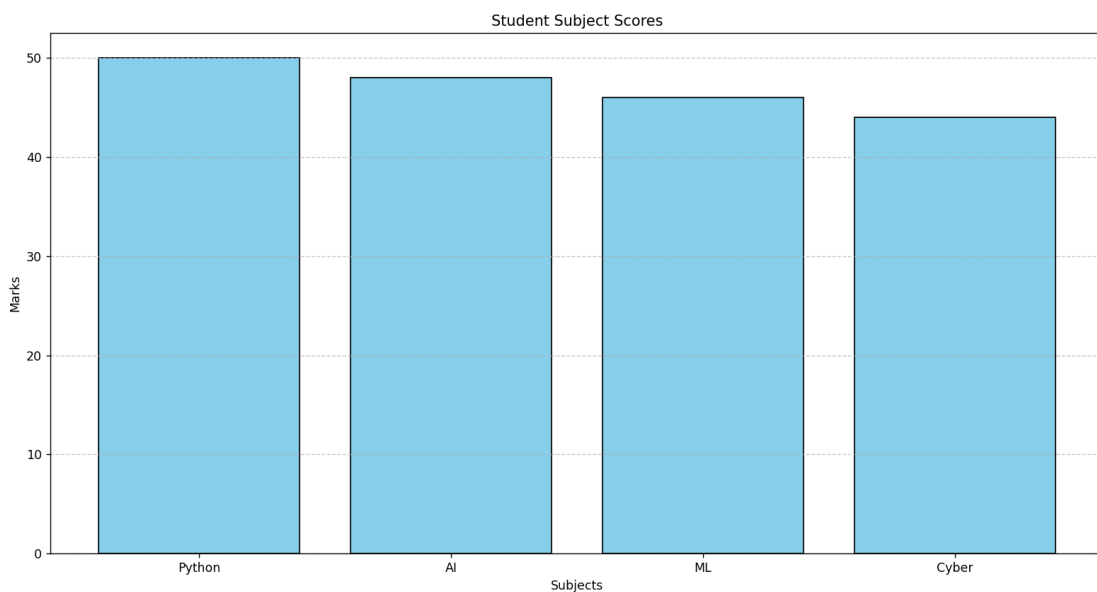
```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE powershell
Requirement already satisfied: tqdm in c:\users\anushree\appdata\roaming\python\python311\site-packages (from nltk>=3.9->textblob) (4.67.1)
Requirement already satisfied: colorama in c:\program files\python311\lib\site-packages (from click>=3.9->textblob) (0.4.6)
Downloading textblob-0.19.0-py3-none-any.whl (624 kB)
----- 624.3/624.3 kB 335.6 kB/s eta 0:00:00
Installing collected packages: textblob
Successfully installed textblob-0.19.0

[notice] A new release of pip is available: 22.3 -> 25.2
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\Anushree> python sentimental_analysis.py
• Enter a sentence: i love my family
Polarity: 0.5
Subjectivity: 0.6
Sentiment: Positive
PS C:\Users\Anushree>
```

Q2. MATPLOT EXPERIMENTATION

```
sentimental_analysis.py 1  MATPLOT.py 1 X  Welcome to Settings Sync
C: > Users > Anushree > MATPLOT.py > ...
1  import matplotlib.pyplot as plt # Importing the required library
2  # Step 1: Define the data
3  subjects = ["Python", "AI", "ML", "Cyber"] # List of subjects
4  scores = [50, 48, 46, 44] # Corresponding marks or performance scores
5  # Step 2: Create the bar chart
6  # color      → sets the fill color of bars
7  # edgecolor   → adds black border around each bar
8  plt.bar(subjects, scores, color='skyblue', edgecolor='black') # Plotting a vertical bar chart
9  # Step 3: Add title and axis labels
10 plt.title("Student Subject Scores") # Chart title
11 plt.xlabel("Subjects") # X-axis label
12 plt.ylabel("Marks") # Y-axis label
13 # Step 4: Add gridlines for better readability
14 # axis='y' → shows horizontal gridlines only
15 # alpha=0.7 → slightly transparent gridlines
16 plt.grid(axis='y', linestyle='--', alpha=0.7) # linestyle='--' → dashed gridline style
17 # Step 5: Display the final chart
18 plt.show()
19
```

OUTPUT:



QUESTION NO 3: QR CODE GENERATION

```
C: > Users > Anushree > qr.py > ...
1  import qrcode
2  data = "https://pay.google.com/"
3  qr=qrcode.make(data)
4  qr.save("gpay_qr.png")
5  print("QR generated")
```

OUTPUT:

```
[notice] A new release of pip is available: 22.3 -> 25.2
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\Anushree> python qr.py
● QR generated
○ PS C:\Users\Anushree> 
```

Live Share

