

# PYTHON LAB TASK

## Visual Studio Code

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### About VS Code:

Visual Studio Code (VS Code) is a free, open-source code editor developed by Microsoft. It can be installed by downloading it from the official website <https://code.visualstudio.com>. VS Code works on Windows, macOS, and Linux systems. It supports many programming languages like Python, C++, Java, and JavaScript. We can enhance it using extensions for themes, language support, and productivity. It has a built-in terminal, so we can run our code without leaving the app. Visual Studio Code supports GitHub Copilot.

### Task1: Sentiment Analysis using TextBlob

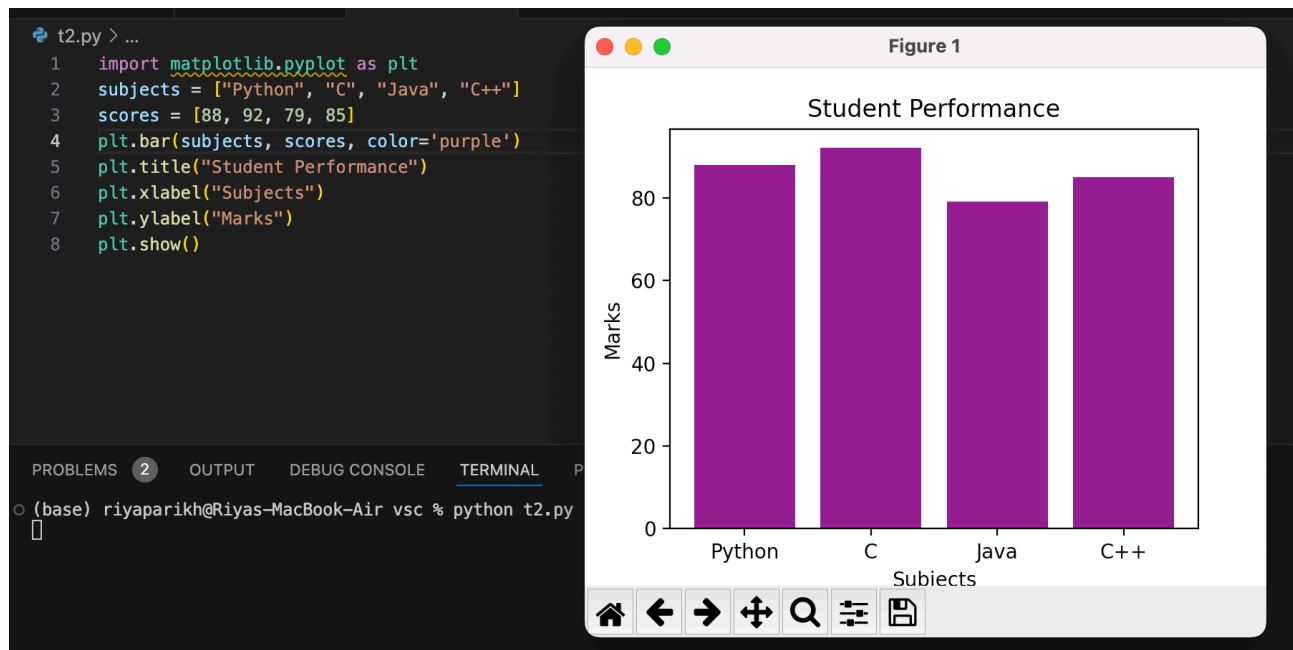
This program uses the TextBlob library to find the sentiment of a sentence you enter. It checks whether the text is positive, negative, or neutral based on its polarity score.

```
t1.py > ...
1  from textblob import TextBlob
2  text = input("Enter a sentence: ")
3  blob = TextBlob(text)
4  print("Polarity:", blob.sentiment.polarity)
5  print("Subjectivity:", blob.sentiment.subjectivity)
6  if blob.sentiment.polarity > 0:
7      print("Sentiment: Positive ")
8  elif blob.sentiment.polarity < 0:
9      print("Sentiment: Negative")
10 else:
11     print("Sentiment: Neutral ")

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS
python -u "/Users/riyaparikh/Documents/vsc/t1.py"
(base) riyaparikh@Riyas-MacBook-Air vsc % python -u "/Users/riyaparikh/Documents/vsc/t1.py"
Enter a sentence: good morning! my name is Riya
Polarity: 0.875
Subjectivity: 0.6000000000000001
Sentiment: Positive
```

## Task2: Bar Chart using Matplotlib

This program creates a bar chart showing a student's marks in different subjects using matplotlib. It displays the subjects on the x-axis and their corresponding scores on the y-axis.



## Task3: QR code generation

This program creates a QR code for the Netflix website using the qrcode library. It saves the generated QR code image as `qr.png` on your computer.

```
t3.py > ...
1 import qrcode
2 data = "https://www.netflix.com"
3 qr = qrcode.make(data)
4 qr.save("qr.png")
5 print("QR Code Generated")
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
(base) riyaparikh@Riyas-MacBook-Air vsc % python t3.py
QR Code Generated
```

THE QR CODE GENRATED IS SHOWN BELOW:

