

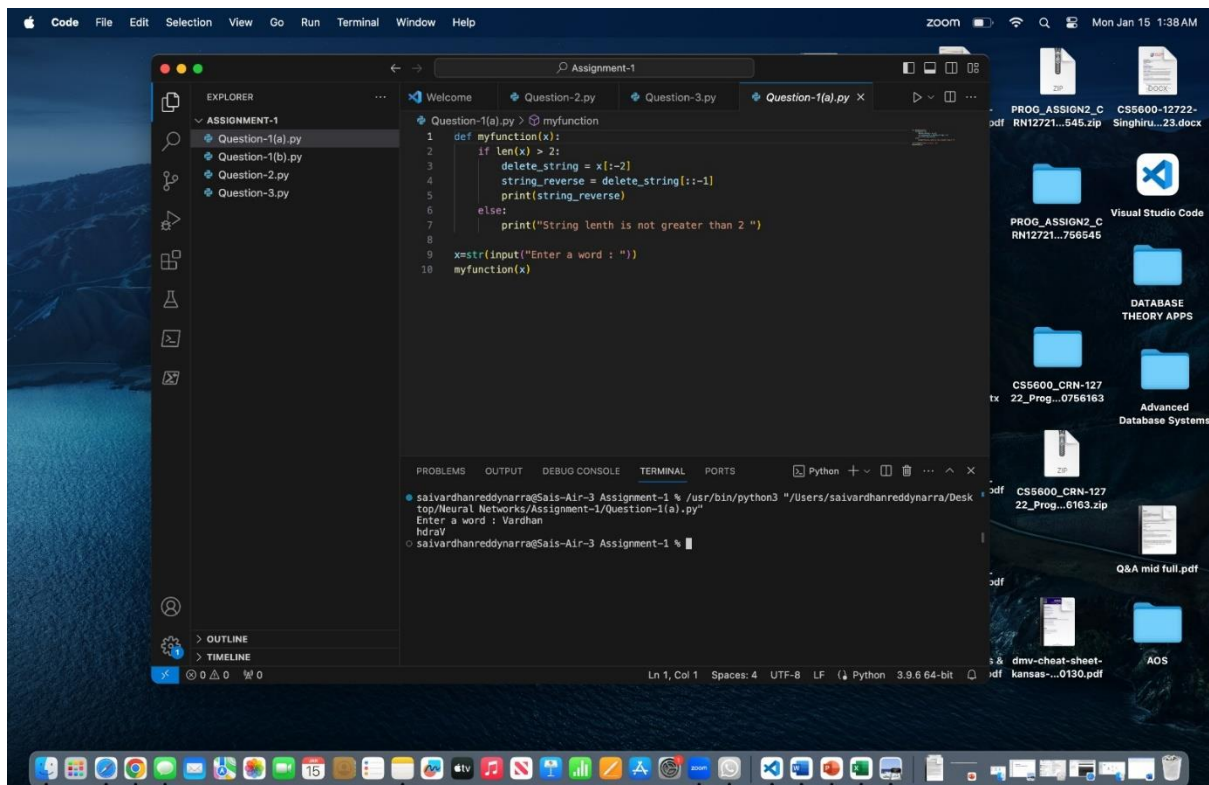
1. GitHub link

https://github.com/saivardhan-dev/Neural-Networks-Assignment1_700756163.git

2. Video link

https://drive.google.com/file/d/1lqTvv6Gmc1O377Cebg2Bl-J_NvhmNrN/view?usp=drive_link

3. Write a python program for the following: – Input the string “Python” as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.



```
1 def myfunction(x):
2     if len(x) > 2:
3         delete_string = x[:-2]
4         string_reverse = delete_string[::-1]
5         print(string_reverse)
6     else:
7         print("String length is not greater than 2 ")
8
9 x = input("Enter a word : ")
10 myfunction(x)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - Python 3.9.6 64-bit

```
saivardhanreddynarra@sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-1(a).py"
Enter a word : Vardhan
nrahV
saivardhanreddynarra@sais-Air-3 Assignment-1 %
```

-Take two numbers from user and perform at least 4 arithmetic operations on them.

The screenshot shows a Visual Studio Code editor window titled 'Assignment-1'. The Explorer panel on the left shows a folder named 'ASSIGNMENT-1' containing four files: 'Question-1(a).py', 'Question-1(b).py', 'Question-2.py', and 'Question-3.py'. The main editor area displays the code for 'Question-1(b).py', which is a Python script that takes two numbers as input and performs arithmetic operations. The code is as follows:

```
1 Input_1=float(input("Enter a number:"))
2 Input_2=float(input("Enter a number:"))
3 print("Sum of two numbers is:", Input_1+Input_2)
4 print("Subtraction of two numbers is:", Input_1-Input_2)
5 print("Multiplication of two numbers is:", Input_1*Input_2)
6 print("Division of two numbers is:", Input_1/Input_2)
7
```

The TERMINAL panel at the bottom shows the output of the program when executed. The user enters '5' and '6.5', and the program outputs the sum, subtraction, multiplication, and division results.

```
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-1(b).py"
Enter a number:5
Enter a number:6.5
Sum of two numbers is: 11.5
Subtraction of two numbers is: -1.5
Multiplication of two numbers is: 32.5
Division of two numbers is: 0.7692307692307693
saivardhanreddynarra@Sais-Air-3 Assignment-1 %
```

4. Write a program that accepts a sentence and replace each occurrence of 'Python' with 'Pythons.'

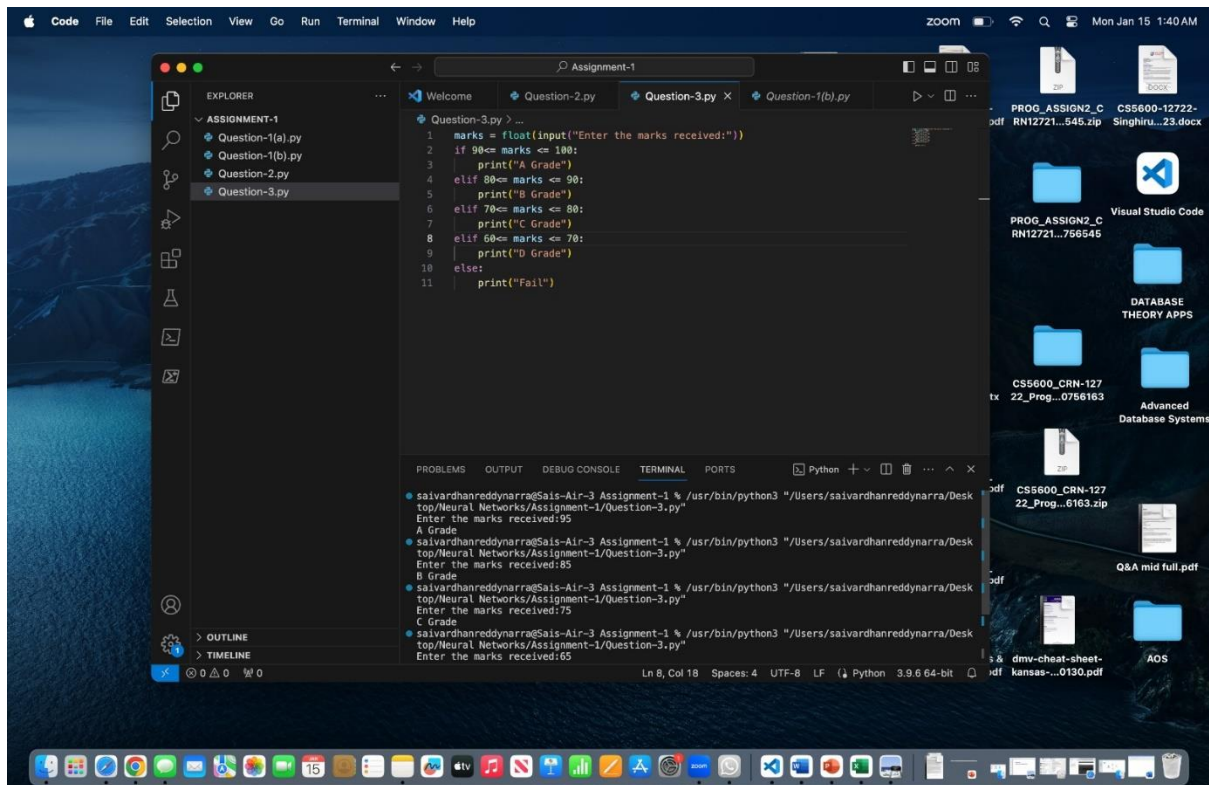
The screenshot shows a Visual Studio Code editor window titled 'Assignment-1'. The Explorer panel on the left shows a folder named 'ASSIGNMENT-1' containing four files: 'Question-1(a).py', 'Question-1(b).py', 'Question-2.py', and 'Question-3.py'. The main editor area displays the code for 'Question-2.py', which is a Python script that takes a sentence as input and replaces all occurrences of 'Python' with 'Pythons'. The code is as follows:

```
1 Input= str(input("Enter a sentence:"))
2 replacing_sentence = Input.replace('Python', 'Pythons')
3 print(replacing_sentence)
4
```

The TERMINAL panel at the bottom shows the output of the program when executed. The user enters 'Python', and the program outputs 'Pythons'.

```
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-2.py"
Enter a sentence:Python
Pythons
saivardhanreddynarra@Sais-Air-3 Assignment-1 %
```

5. Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class



The screenshot displays the Visual Studio Code interface with a Python file named 'Question-3.py' open. The code implements an if-elif-else statement to determine a letter grade based on a user input. The terminal window shows the execution of the program with three test cases: 95 (A Grade), 85 (B Grade), and 75 (C Grade).

```
1 marks = float(input("Enter the marks received:"))
2 if 90<= marks <= 100:
3     print("A Grade")
4 elif 80<= marks <= 90:
5     print("B Grade")
6 elif 70<= marks <= 80:
7     print("C Grade")
8 elif 60<= marks <= 70:
9     print("D Grade")
10 else:
11     print("Fail")
```

Terminal Output:

```
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-3.py"
Enter the marks received:95
A Grade
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-3.py"
Enter the marks received:85
B Grade
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-3.py"
Enter the marks received:75
C Grade
saivardhanreddynarra@Sais-Air-3 Assignment-1 % /usr/bin/python3 "/Users/saivardhanreddynarra/Desktop/Neural Networks/Assignment-1/Question-3.py"
Enter the marks received:65
```