Neural Network Deep Learning

Assignment – 1

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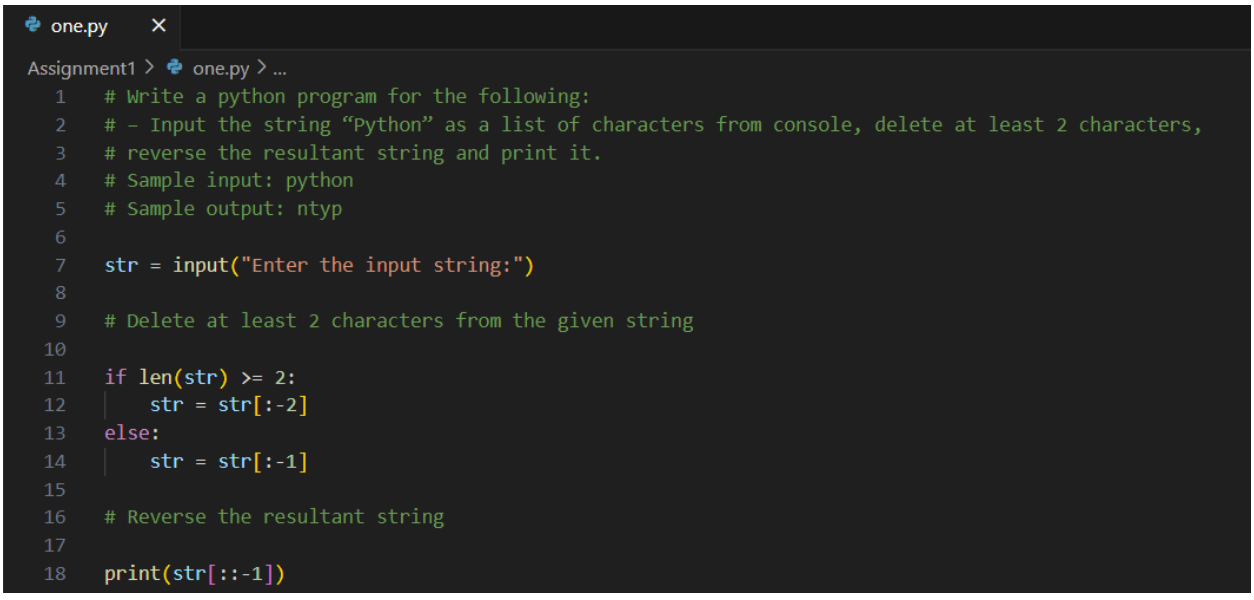
Github Link : https://github.com/kishorreyansh/Neural-Network-Deep-Learning/tree/main/Assignment-1

1. 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.
   Sample input: •python
   •Sample output: •ntyp

   In the below code snippet, we are accepting input characters from the console and deleting at least two characters before reversing the resultant string.



Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\UCM\Kishor\Neural Network Deep Learning> cd .\Assignment1\
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python one.py
Enter the input string:python
htyp
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1>
```

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

In the below Code snippet, we are performing basic arithmetic operations on two input numbers given from the console.

one.py

Assignment1 > one.py > ...

```
19
20
21  # – Take two numbers from user and perform at least 4 arithmetic operations on them.
22
23  a = int(input("Enter the First Number: "))
24  b = int(input("Enter the Second Number: "))
25
26  # Addition
27  print(a + b)
28  # Subtraction
29  print(a - b)
30  # Multiplication
31  print(a * b)
32  # Division
33  print(a / b)
34
```

Output:

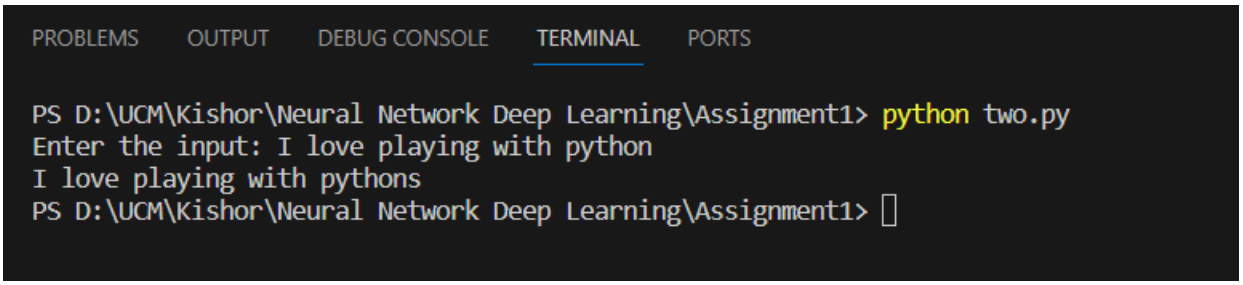
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python one.py
Enter the First Number: 17
Enter the Second Number: 4
21
13
68
4.25
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1>
```

2. Write a program that accepts a sentence and replace each occurrence of ‘python’ with ‘pythons’.
   •Sample input: •I love playing with python
   •Sample output: •I love playing with pythons

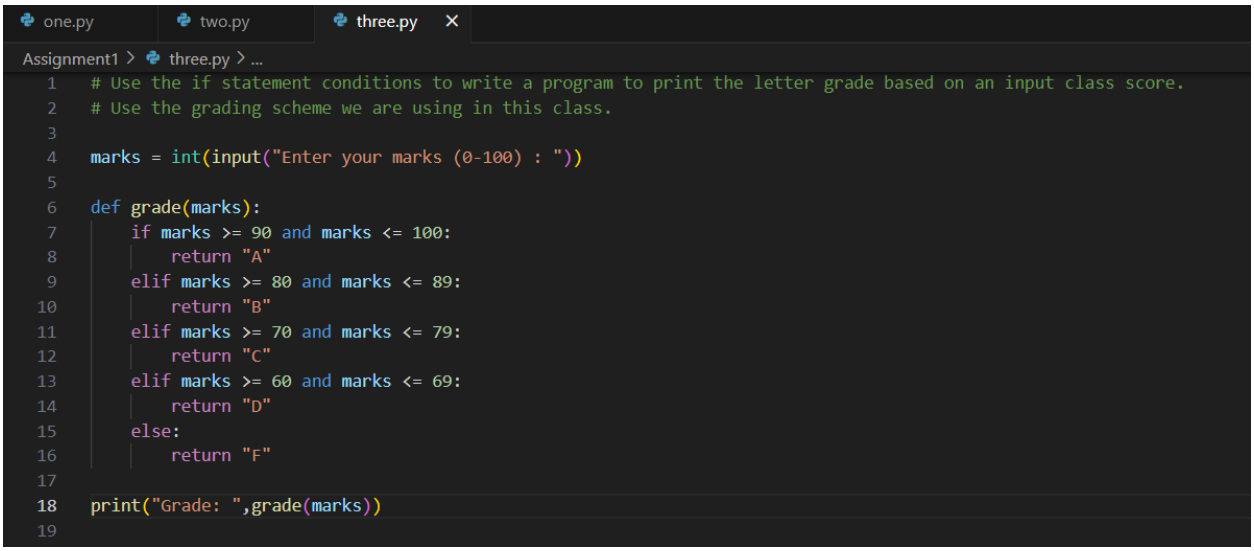
   In the below Code snippet, we are replacing python with pythons

   Output:



3. 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.

   In the below Code snippet, we are calculating the grade based on marks entered in the console using conditional statements.



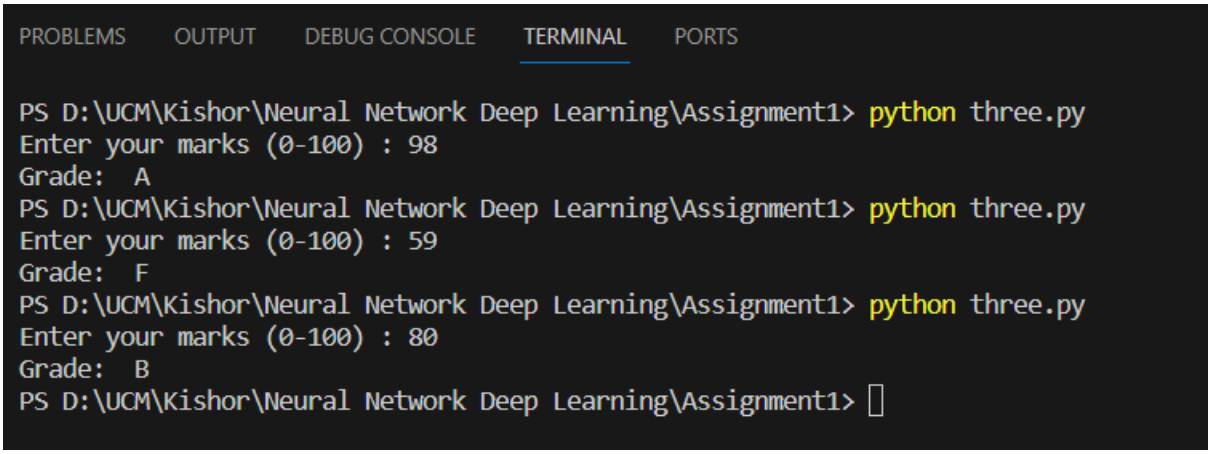
```python
# Use the if statement conditions to write a program to print the letter grade based on an input class score.
# Use the grading scheme we are using in this class.

marks = int(input("Enter your marks (0-100) : "))

def grade(marks):
    if marks >= 90 and marks <= 100:
        return "A"
    elif marks >= 80 and marks <= 89:
        return "B"
    elif marks >= 70 and marks <= 79:
        return "C"
    elif marks >= 60 and marks <= 69:
        return "D"
    else:
        return "F"

print("Grade: ",grade(marks))
```

Output:



```
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python three.py
Enter your marks (0-100) : 98
Grade:  A
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python three.py
Enter your marks (0-100) : 59
Grade:  F
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python three.py
Enter your marks (0-100) : 80
Grade:  B
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1>
```