

Neural Network Deep Learning

Assignment – 1

Name: Kishor Kumar Andekar

Student ID: 700744713

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.

```
one.py  X
Assignment1 > one.py > ...
1  # Write a python program for the following:
2  # - Input the string "Python" as a list of characters from console, delete at least 2 characters,
3  # reverse the resultant string and print it.
4  # Sample input: python
5  # Sample output: ntyp
6
7  str = input("Enter the input string:")
8
9  # Delete at least 2 characters from the given string
10
11 if len(str) >= 2:
12     str = str[:-2]
13 else:
14     str = str[:-1]
15
16 # Reverse the resultant string
17
18 print(str[::-1])
```

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  X
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

```
one.py two.py x
Assignment1 > two.py > ...
1  # Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.
2  # •Sample input: I love playing with python
3  # •Sample output: I love playing with pythons
4
5  input_string = input("Enter the input: ")
6
7  # Replace the each occurrence of "python" with "pythons"
8  output_string = input_string.replace("python", "pythons")
9
10 # Printing the output string
11 print(output_string)
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> python two.py
Enter the input: I love playing with python
I love playing with pythons
PS D:\UCM\Kishor\Neural Network Deep Learning\Assignment1> █
```

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.

```
one.py two.py three.py X
Assignment1 > three.py > ...
1  # Use the if statement conditions to write a program to print the letter grade based on an input class score.
2  # Use the grading scheme we are using in this class.
3
4  marks = int(input("Enter your marks (0-100) : "))
5
6  def grade(marks):
7      if marks >= 90 and marks <= 100:
8          return "A"
9      elif marks >= 80 and marks <= 89:
10         return "B"
11     elif marks >= 70 and marks <= 79:
12         return "C"
13     elif marks >= 60 and marks <= 69:
14         return "D"
15     else:
16         return "F"
17
18 print("Grade: ",grade(marks))
19
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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> 
```