

## ASSIGNMENT – 1

### DEEP LEARNING NEURAL NETWORKS

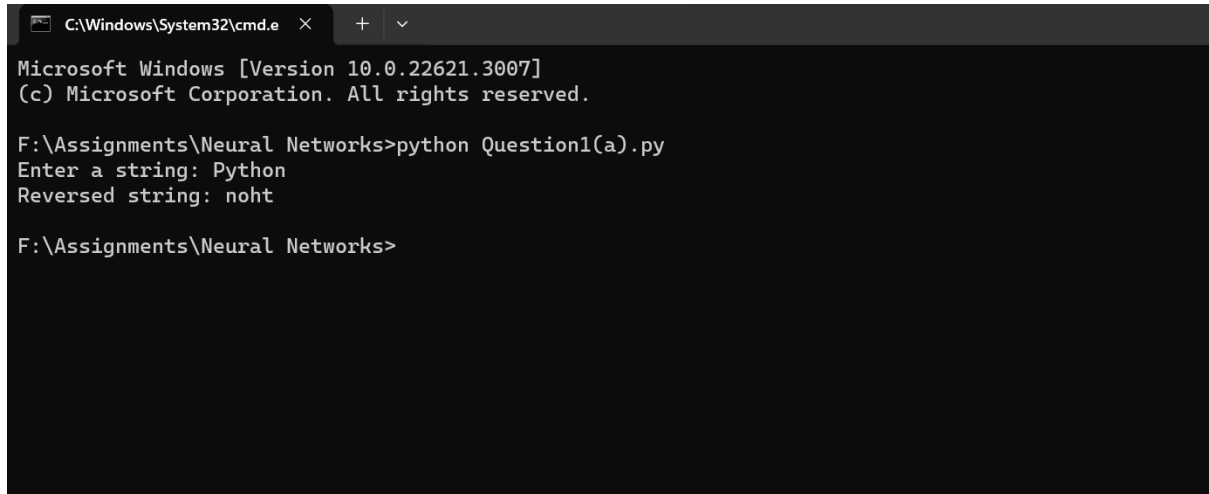
**GitHub link:** [https://github.com/nagaphaneendra2001/Deep\\_Learning\\_Neural\\_Networks.git](https://github.com/nagaphaneendra2001/Deep_Learning_Neural_Networks.git)

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.

#### **Source Code:**

```
input_string = list(input("Enter a string: "))
if len(input_string) >= 2:
    del input_string[:2]
    reversed_string = ''.join(input_string[::-1])
    print("Reversed string:", reversed_string)
else:
    print("Enter the input string with minimum of three letters")
```

#### **Output:**



```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

F:\Assignments\Neural Networks>python Question1(a).py
Enter a string: Python
Reversed string: noht

F:\Assignments\Neural Networks>
```

### Source Code:

```
num_1 = int(input('Enter first input number:'))
num_2 = int(input('Enter second input number:'))
# Addition of two numbers
print("Addition Result is :", num_1 + num_2)
#subtraction of two numbers
if (num_1 > num_2):
    print("Subtraction Result is :",num_1-num_2)
else:
    print("Subtraction Result is :", num_2 - num_1)
# multiplication of two numbers
print("Multiplication Result is : ", num_1 * num_2)
#Modulus of two numbers
print("Modulus Result value is :", num_1 % num_2)
#exponent of two numbers
print("Exponent Result is :", num_1 ** num_2)
```

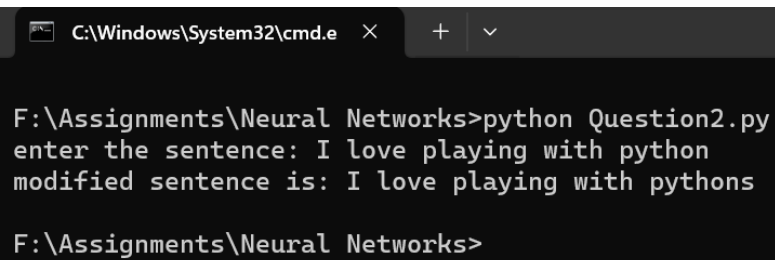
```
C:\Windows\System32\cmd.e × + ∨  
F:\Assignments\Neural Networks>python Question1(b).py  
Enter first input number:10  
Enter second input number:20  
Addition Result is : 30  
Subtraction Result is : 10  
Multiplication Result is : 200  
Modulus Result value is : 10  
Exponent Result is : 100000000000000000000  
F:\Assignments\Neural Networks>
```

2. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.

### Source Code:

```
input_value = input("enter the sentence")
result = input_value.replace("python","pythons")
print("modified sentence is:", result)
```

### Output:



The screenshot shows a Windows command prompt window with the title bar 'C:\Windows\System32\cmd.e'. The command prompt is open at the directory 'F:\Assignments\Neural Networks'. The user has entered the command 'python Question2.py'. The program prompts 'enter the sentence:' and the user has entered 'I love playing with python'. The program then outputs 'modified sentence is: I love playing with pythons'. The prompt 'F:\Assignments\Neural Networks>' is visible at the bottom.

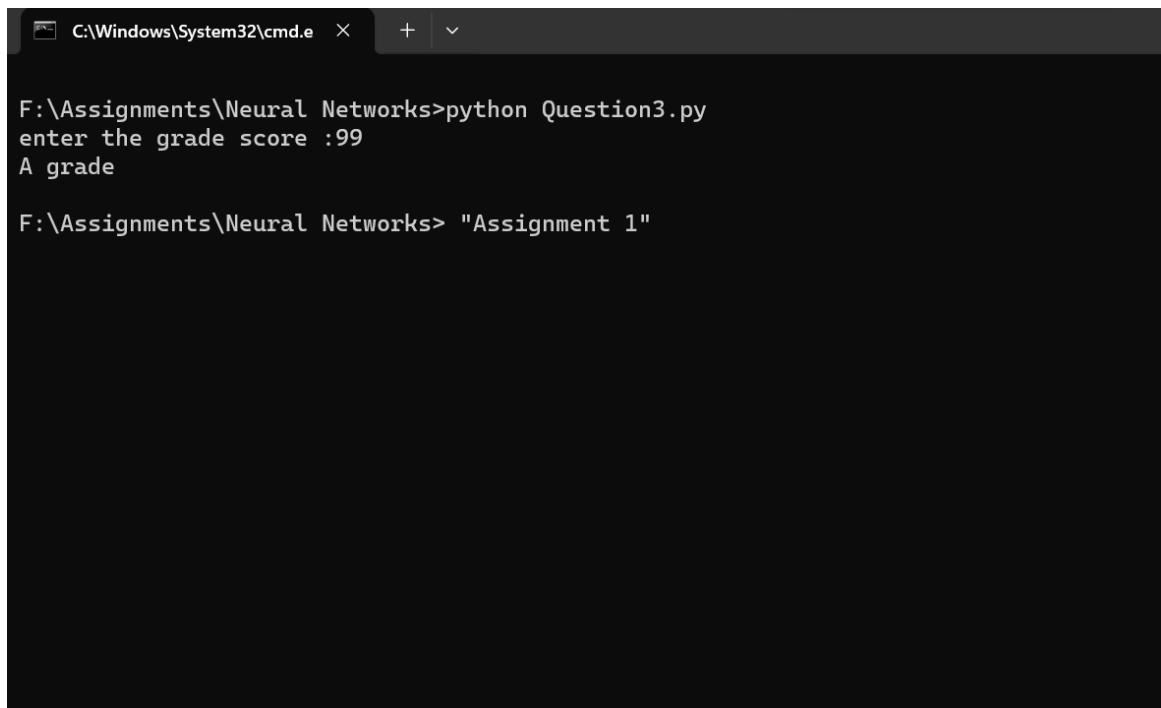
```
C:\Windows\System32\cmd.e
F:\Assignments\Neural Networks>python Question2.py
enter the sentence: I love playing with python
modified sentence is: I love playing with pythons
F:\Assignments\Neural Networks>
```

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.

### Source Code:

```
#print grades based on user input
score = int(input("enter the grade score :"))
if (score > 90) & (score <=100):
    print("A grade")
elif (score > 80) & (score <= 90):
    print("B grade")
elif (score > 70) & (score <= 80):
    print("C grade")
elif (score > 60) & (score <= 70):
    print("D grade")
else:
    print("Fail")
```

### Output:



```
C:\Windows\System32\cmd.e  X  +  v
F:\Assignments\Neural Networks>python Question3.py
enter the grade score :99
A grade
F:\Assignments\Neural Networks> "Assignment 1"
```