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Neural Networks & Deep Learning - ICP-1

Github link: https://github.com/ShaikRumana301/Neural-Network-DL-ICP-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:

    •nty

```
In [6]: import random

        string = input("please enter text : ") #takes the string as input

        split =  random.randrange(2, len(string)-2) #this function returns the random value from the given range

        string = string.replace(string[split:],"") #replace the characters of the string
        string = string[::-1] #reversing resultant string
        print(string) #prints the resultant string

        please enter text : python
        typ
```

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

```
In [7]: digit1 = int(input("please enter number 1 :")) #takes integer value as input
        digit2 = int(input("please enter number 2 :"))

        print("\nAddition : ",(digit1+digit2)) #performs addition operation and prints resultant integer value

        print("Substraction : ",(digit1-digit2)) #performs subtraction operation and prints resultant integer value

        print("Multiplication : ",(digit1*digit2)) #performs multiplication operation and prints resultant integer value

        print("Divison : ",(digit1/digit2)) #performs division operation and prints resultant integer value

        please enter number 1 :247
        please enter number 2 :134

        Addition :  381
        Substraction :  113
        Multiplication :  33098
        Divison :  1.8432835820895523
```

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 [8]: inputValue = input("please enter string :") #takes string as input

        inputValue = inputValue.replace("python","pythons") #replaces the string

        print(inputValue) #prints the output string

        please enter string :I love to play with python
        I love to play with pythons
```

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 [3]: percent = int(input("Enter Students score : ")) #takes an input percentageI

        if(percent<=100 and percent>=90): #if condition to check percentage is greater than or equal to 90 and less than or equal to 100
            print("Grade : A")
        elif(percent<=89 and percent>=80): #else if the percentage is greater than or equal to 80 and less than or equal to 89
            print("Grade : B")
        elif(percent<=79 and percent>=70): #else if the percentage is greater than or equal to 70 and less than or equal to 79
            print("Grade : C")
        elif(percent<=69 and percent>=60): #else if the percentage is greater than or equal to 60 and less than or equal to 69
            print("Grade : D")
        elif(percent<=59 and percent>=0): #else if the percentage is greater than or equal to 0 and less than or equal to 59
            print("Grade : F")

        Enter Students score : 93
        Grade : A
```