NEURAL NETWORK DEEP LEARNING
ICP_1_SPRING24 ASSIGNMENT- 1

NAME : JAYADEEP NAGUBATHULA
UCM ID: 700747518

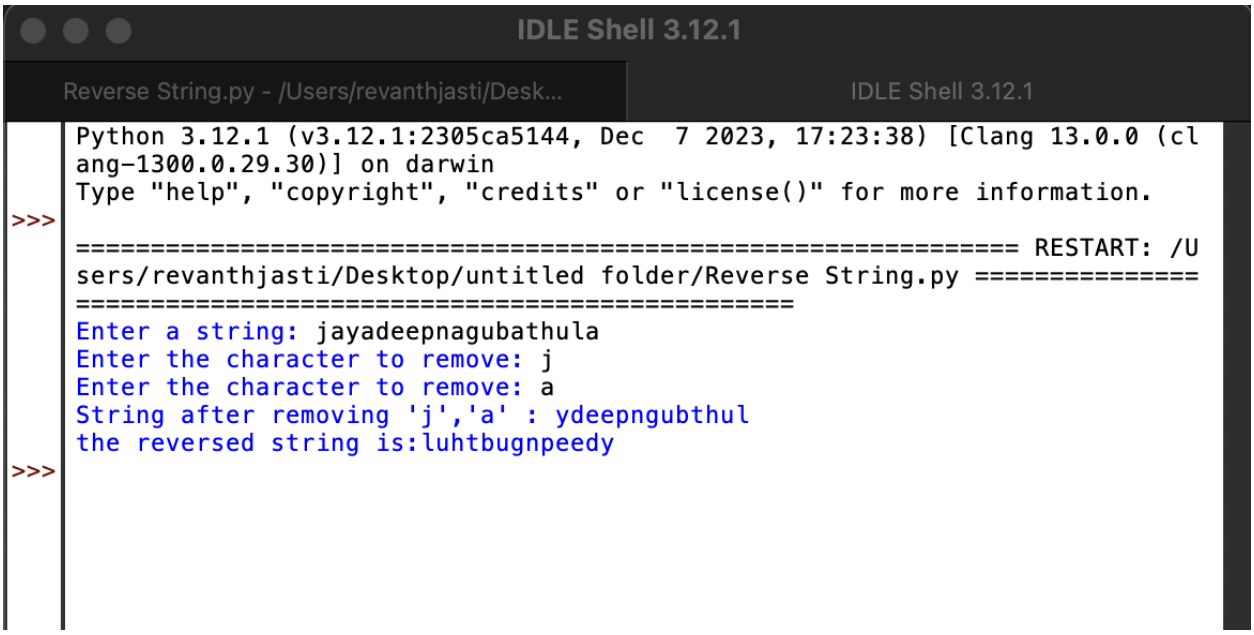
GITHUB LINK:
https://github.com/JayadeepNagubathula/ICP_1_SPRING24_ASSIGN-1

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.

Source code:

```
def char(string, x, y): # defining the function to remove the characters
    a = string.replace(x,'') # removing the 1st character
    b = a.replace(y,'') #removing the 2nd character
    return b
string = input("Enter a string: ") #taking the input as string from the user
x= input("Enter the character to remove: ")# taking the 1st character from the user
y= input("Enter the character to remove: ")#taking the 1st character from the user

b = char(string, x, y) #calling the function
print(f"String after removing '{x}','{y}' : {b}")# printing the string after removing the characters
print("the reversed string is:" + b[::-1]) # reverse the string.
```

Output:



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

Source code:

```
def arth(a,b): #defining the arthemetic function
  print(a + b)  #performing addition operation
  print(a - b)  #performing subtraction operation
  print(a / b)  #performing division operation
  print(a * b)  #performing multiplication

a=int(input("enter the 1st number:")) #taking the input from user of integer type
b=int(input("enter the 2nd number:")) #taking the input from user of integer type

arth(a,b) #calling the arthemetic function
```

Output:

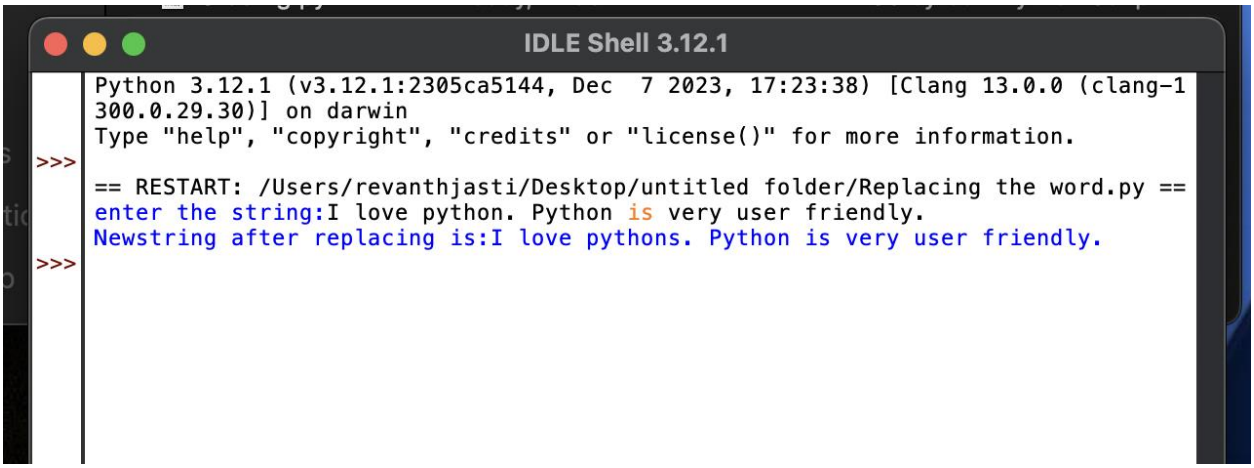
```
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: /Users/revanthjasti/Desktop/untitled folder/Arthemetic.py ==========
enter the 1st number:24
enter the 2nd number:4
28
20
6.0
96
>>>
```

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

Source code:

```
GivenString = str(input("enter the string:")) #taking the input from the user
newstring = GivenString.replace("python", "pythons") #replacing the words with replace keyword
print("Newstring after replacing is:" + newstring) #printing the result string
```

Output:

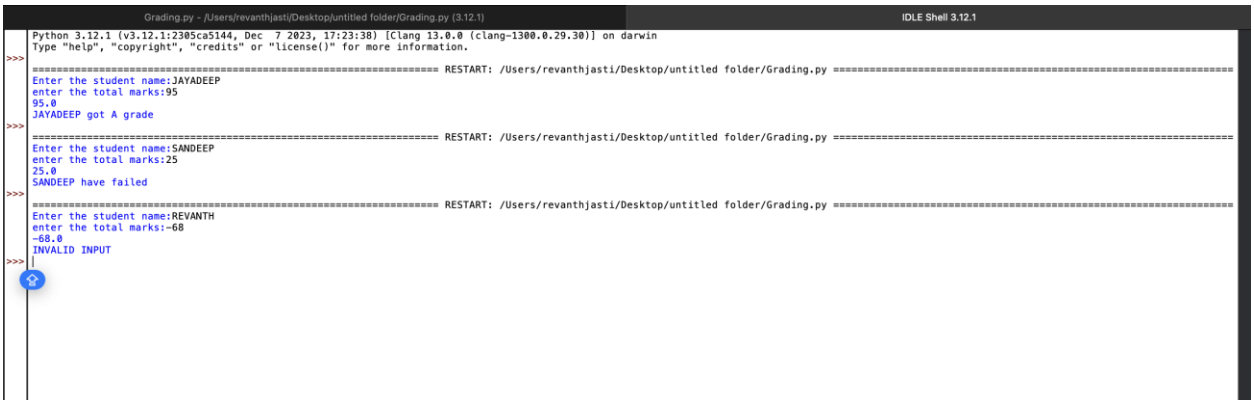


3.) Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

Source code:

```
def Grade():
  s_name=str(input("Enter the student name:")) #taking the name of the student  from user
  totalmarks=float(input("enter the total marks:"))# Asking the user to enter the marks
  percentage= float((totalmarks/100)*100) #calculating the percentage of the student by using total marks
  print(percentage) #printing the percentage of the student

  if(percentage>=90):#check condition for the grades displaying

   print ( s_name +" got A grade")

  elif(percentage>=80 and percentage<90):

    print(s_name + " got B grade")

  elif(percentage>=70 and percentage<80):

    print(s_name + " got C grade")

  elif(percentage>=60 and percentage<70):

     print ( s_name + " got D grade")

  elif(percentage>=0 and percentage<60):


       print(s_name + " have failed")

  else:

        print("INVALID INPUT")

Grade()
```

Output:


Grading.py - /Users/revanthjasti/Desktop/untitled folder/Grading.py (3.12.1)
IDLE Shell 3.12.1
Python 3.12.1 (v3.12.1:2305ca5144, Dec 7 2023, 17:23:38) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: /Users/revanthjasti/Desktop/untitled folder/Grading.py ==========
Enter the student name:JAYADEEP
enter the total marks:95
95.0
JAYADEEP got A grade
>>>
========== RESTART: /Users/revanthjasti/Desktop/untitled folder/Grading.py ==========
Enter the student name:SANDEEP
enter the total marks:25
25.0
SANDEEP have failed
>>>
========== RESTART: /Users/revanthjasti/Desktop/untitled folder/Grading.py ==========
Enter the student name:REVANTH
enter the total marks:-68
-68.0
INVALID INPUT
>>>