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NEURAL NETWORKS AND DEEP LEARNING

ASSIGNMENT -1

Github link : https://github.com/phani421-cyber/ICP1

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

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

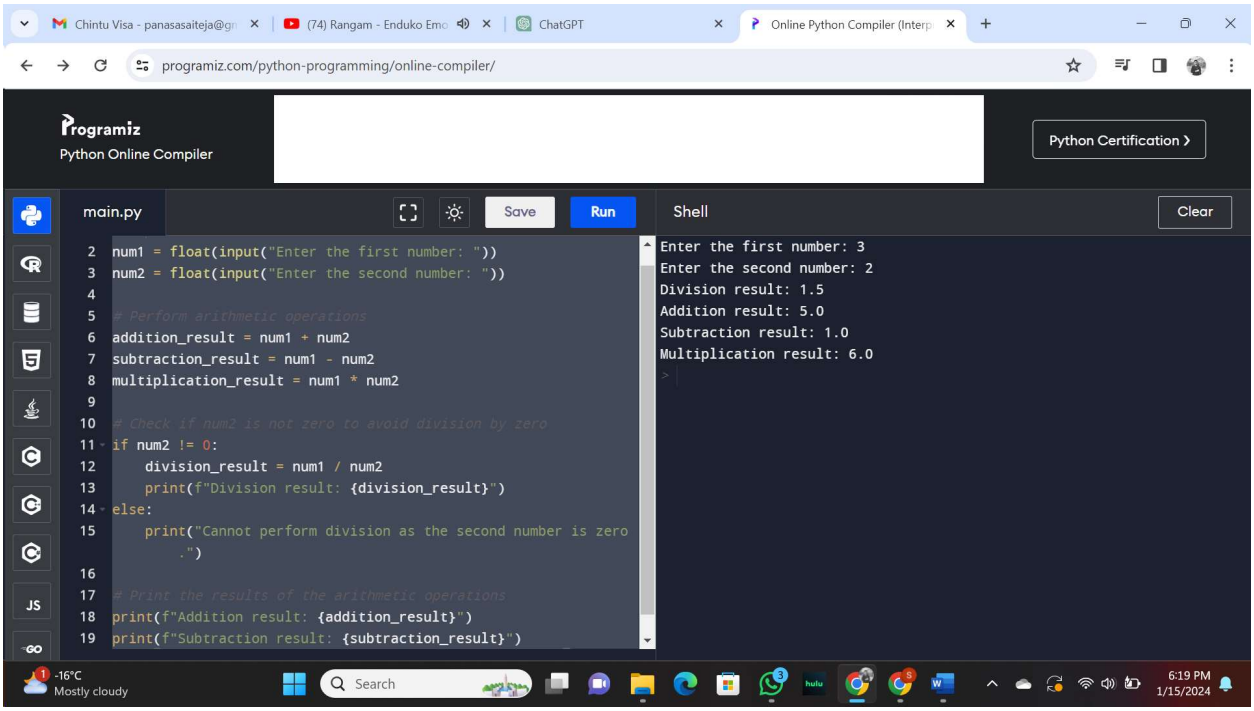
```
# Input two numbers from the user
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

# Perform arithmetic operations
addition_result = num1 + num2
subtraction_result = num1 - num2
multiplication_result = num1 * num2
```

```
# Check if num2 is not zero to avoid division by zero
if num2 != 0:
    division_result = num1 / num2
    print(f"Division result: {division_result}")
else:
    print("Cannot perform division as the second number is zero.")

# Print the results of the arithmetic operations
print(f"Addition result: {addition_result}")
print(f"Subtraction result: {subtraction_result}")
print(f"Multiplication result: {multiplication_result}")
```

Output:



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

   Sample input:

   I love playing with python

   Sample output:

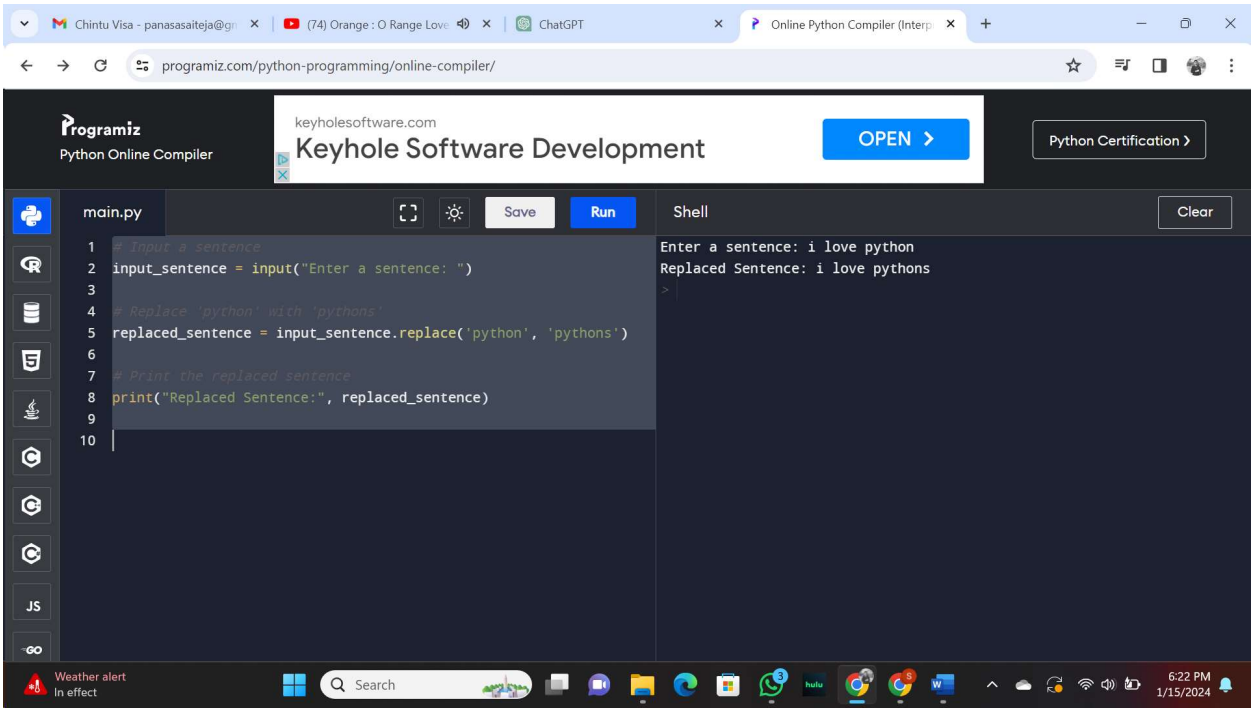
   I love playing with pythons

Code:

```
# Input a sentence
input_sentence = input("Enter a sentence: ")

# Replace 'python' with 'pythons'
replaced_sentence = input_sentence.replace('python', 'pythons')

# Print the replaced sentence
print("Replaced Sentence:", replaced_sentence)
```



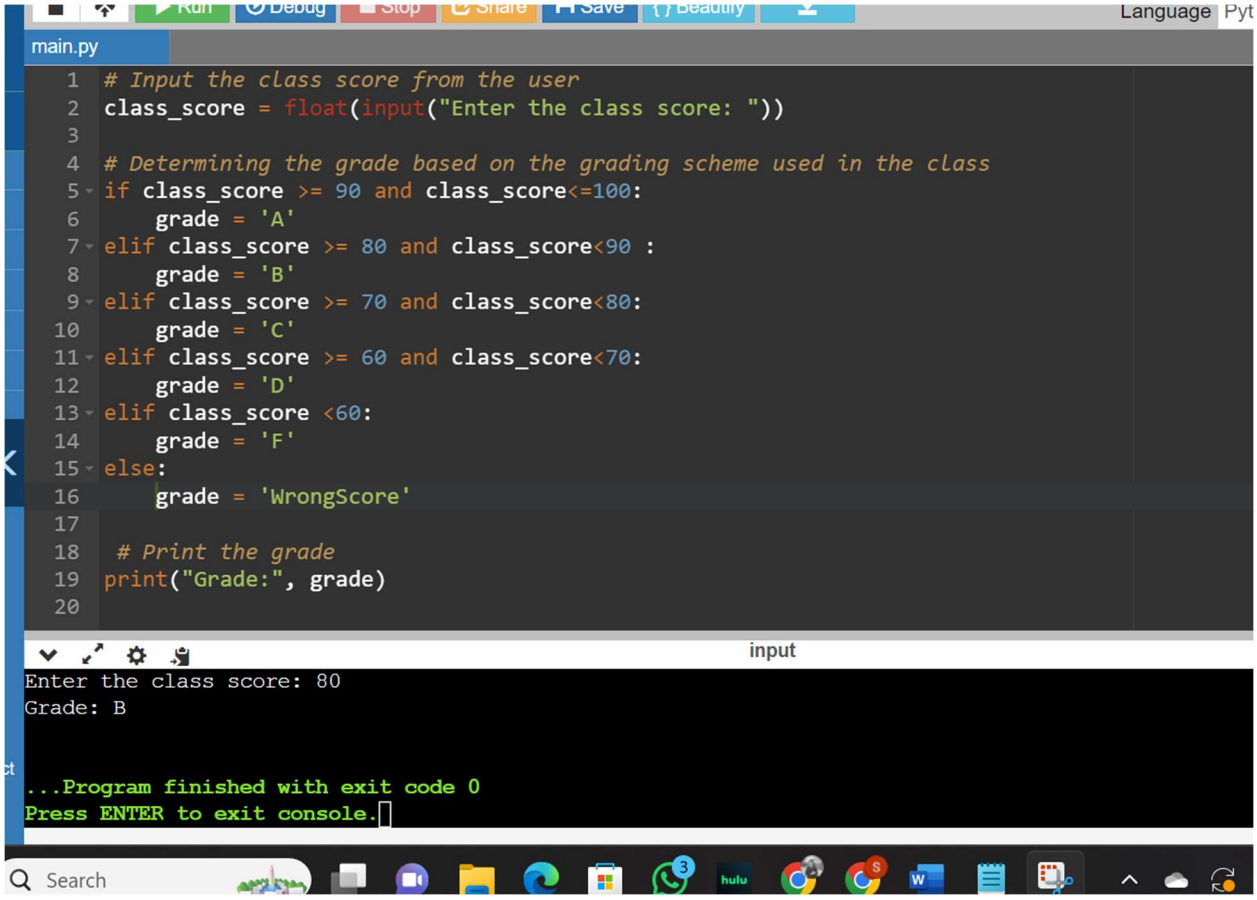
3.Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

Code:

```
# Input the class score from the user
class_score = float(input("Enter the class score: "))

# Determining the grade based on the grading scheme used in the class
if class_score >= 90 and class_score<=100:
grade = 'A'
elif class_score >= 80 and class_score<90 : grade = 'B'
elif class_score >= 70 and class_score<80: grade = 'C'
elif class_score >= 60 and class_score<70: grade = 'D'
elif class_score <60: grade = 'F'
else:
grade = 'WrongScore' # Print the grade
print("Grade:", grade)
```

Output


Run
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Stop
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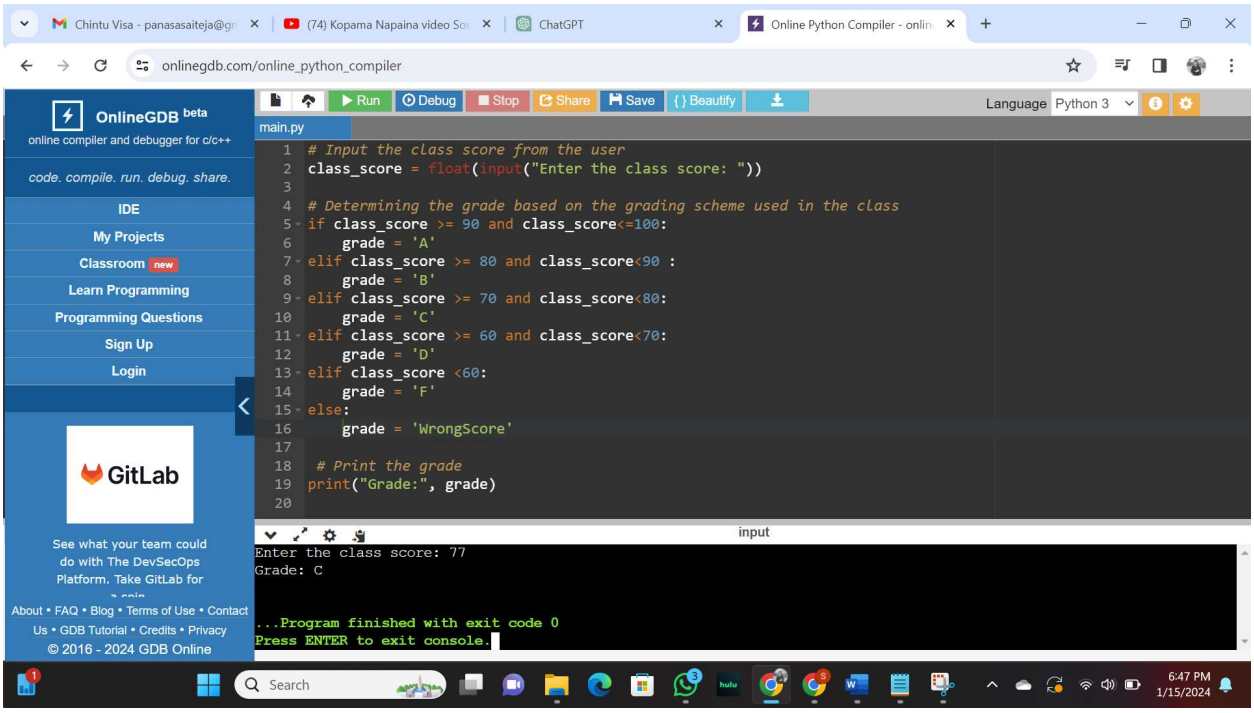
{ } Beautify
Language
Pyt
main.py
1 # Input the class score from the user
2 class_score = float(input("Enter the class score: "))
3
4 # Determining the grade based on the grading scheme used in the class
5 if class_score >= 90 and class_score<=100:
6 grade = 'A'
7 elif class_score >= 80 and class_score<90 :
8 grade = 'B'
9 elif class_score >= 70 and class_score<80:
10 grade = 'C'
11 elif class_score >= 60 and class_score<70:
12 grade = 'D'
13 elif class_score <60:
14 grade = 'F'
15 else:
16 grade = 'WrongScore'
17
18 # Print the grade
19 print("Grade:", grade)
20
input
Enter the class score: 80
Grade: B
...Program finished with exit code 0
Press ENTER to exit console.
Search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Run
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elif class_score >= 80 and class_score<90 :
grade = 'B'
elif class_score >= 70 and class_score<80:
grade = 'C'
elif class_score >= 60 and class_score<70:
grade = 'D'
elif class_score <60:
grade = 'F'
else:
grade = 'WrongScore'
# Print the grade
print("Grade:", grade)
input
Enter the class score: 77
Grade: C
...Program finished with exit code 0
Press ENTER to exit console.
Search
6:47 PM
1/15/2024