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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

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

Code:

# Input the string as a list of characters

input\_string **=** list(input("Enter a string: "))

# Delete at least 2 characters

**if** len(input\_string) **>=** 2:

**del** input\_string[1:3] # Deleting characters at index 1 and 2

# Reverse the resultant string

resultant\_string **=** ''**.**join(input\_string[::**-**1])

# Print the reversed string

print(resultant\_string)

o/p:

**Enter a string: satwik**

**Kiws**

# Taking two numbers from the user

num1 **=** float(input("Enter the first number: "))

num2 **=** float(input("Enter the second number: "))

# Perform arithmetic operations

addition **=** num1 **+** num2

subtraction **=** num1 **-** num2

multiplication **=** num1 **\*** num2

division **=** num1 **/** num2

# Print the results of arithmetic operations

print("Addition:", addition)

print("Subtraction:", subtraction)

print("Multiplication:", multiplication)

print("Division:", division)

o/p

**Enter the first number: 5**

**Enter the second number: 9**

**Addition: 14.0**

**Subtraction: -4.0**

**Multiplication: 45.0**

**Division: 0.5555555555555556**

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

# Accept a sentence from the user

input\_sentence **=** input("Enter a sentence: ")

# Replace 'python' with 'pythons'

output\_sentence **=** input\_sentence**.**replace('python', 'pythons')

# Print the modified sentence

print(output\_sentence)

o/p

**Enter a sentence: satwik loves python as python codes are easy**

**satwik loves pythons as pythons codes are easy**

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.

# Input the class score from the user

class\_score **=** int(input("Enter the class score: "))

# Determine the letter grade based on the score

**if** class\_score **>=** 90:

grade **=** "A"

**elif** class\_score **>=** 80:

grade **=** "B"

**elif** class\_score **>=** 70:

grade **=** "C"

**elif** class\_score **>=** 60:

grade **=** "D"

**else**:

grade **=** "F"

# Print the letter grade

print("Letter Grade:", grade)

o/p

**Enter the class score: 92**

**Letter Grade: A**

https://drive.google.com/file/d/1hchHIPJH-VDLP2GWb3GXuE6DBJX056tb/view?usp=sharing