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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 str: "))

# Delete at least 2 characters

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

**del** input\_string[2:4] # Deleting characters at index 2 and 3

# Reverse the resultant string

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

# Print the reversed string

print(resultant\_string)

o/p:

Enter str: aravind

dnira

# Taking two numbers from the user

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

num2 **=** float(input("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)

first number: 7

second number: 5

Addition: 12.0

Subtraction: 2.0

Multiplication: 35.0

Division: 1.4

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("user sentence: ")

# Replace 'python' with 'pythons'

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

# Print the modified sentence

print(output\_sentence)

user sentence: aravind likes python as python is new coding language

aravind likes pythons as pythons is new coding language

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("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)

Class score: 55

Letter Grade: F