

ICP 1

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Google Drive Link:

<https://drive.google.com/drive/folders/1Kzz-l-XnikF4J0bCgHo2ls9qdBhd63MK>

Github Link : <https://github.com/Nagi-131/700761149-ICP1>

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

Ans:

```
s = input("Enter a string: ")
if len(s) >= 2:
    sub_string=s[::-2]
    result_str = sub_string[::-1]
    print("Processed string:", result_str)
else:
    print("String too short")

a = float(input("Enter first number: "))
b = float(input("Enter second number: "))

sum=a+b
diff = a-b
mul = a*b

if b!=0:
    div = a/b
else:
    div="undefined"

print(f"Sum: {sum}, Difference: {diff}, Product: {mul}, Division: {div}")
```

Enter a string: python
Processed string: htp
Enter first number: 2
Enter second number: 3
Sum: 5.0, Difference: -1.0, Product: 6.0, Division: 0.6666666666666666

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.

Ans:

```
sentence = input("Enter a sentence: ")

modified_sentence = sentence.replace('python', 'pythons')

print("Modified sentence:", modified_sentence)
```

```
Enter a sentence: I love playing with python
Modified sentence: I love playing with pythons
```

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

Ans:

```
score = float(input("Enter the score:"))

if score > 100:
    print("Invalid score")

elif score >= 90:
    grade = "A"

elif score >= 80:
    grade = "B"

elif score >= 70:
    grade = "C"

elif score >= 60:
    grade = "D"

else:
    grade = "F"

print(f"Your grade: {grade}")
```

```
Enter the score:82.5
Your grade: B
```