

ASSIGNMENT 1

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PROJECT TOPIC: CUSTOMER CARE REGISTRY

COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

TEAM NUMBER: PNT2022TMID27825

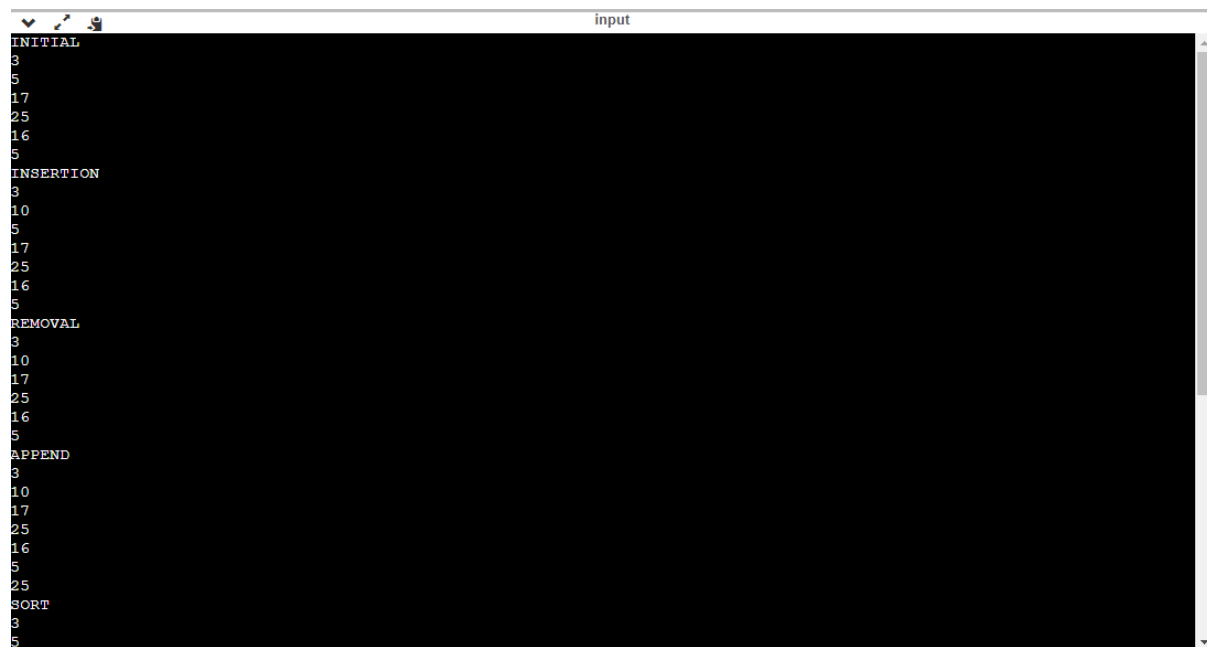
1) List program

PROGRAM:

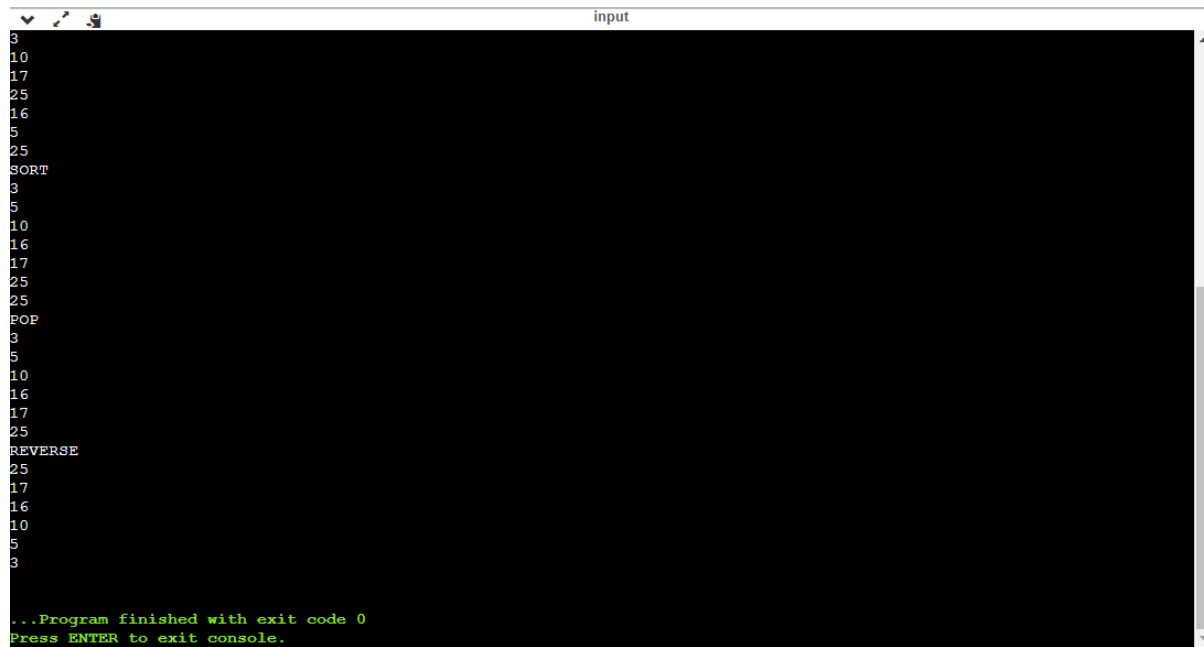
```
ops=[3,5,17,25,16,5]
print("INITIAL")
for i in range(len(ops)):
    print(ops[i])
ops.insert(1,10)
print("INSERTION")
for i in range(len(ops)):
    print(ops[i])
ops.remove(5)
print("REMOVAL")
for i in range(len(ops)):
    print(ops[i])
ops.append(25)
print("APPEND")
for i in range(len(ops)):
    print(ops[i])
ops.sort()
print("SORT")
for i in range(len(ops)):
    print(ops[i])
```

```
ops.pop()
print("POP")
for i in range(len(ops)):
    print(ops[i])
ops.reverse()
print("REVERSE")
for i in range(len(ops)):
    print(ops[i])
```

OUTPUT:



```
input
INITIAL
3
5
17
25
16
5
INSERTION
3
10
5
17
25
16
5
REMOVAL
3
10
17
25
16
5
APPEND
3
10
17
25
16
5
SORT
3
5
```



```
3
10
17
25
16
5
25
SORT
3
5
10
16
17
25
25
POP
3
5
10
16
17
25
REVERSE
25
17
16
10
5
3
...Program finished with exit code 0
Press ENTER to exit console.
```

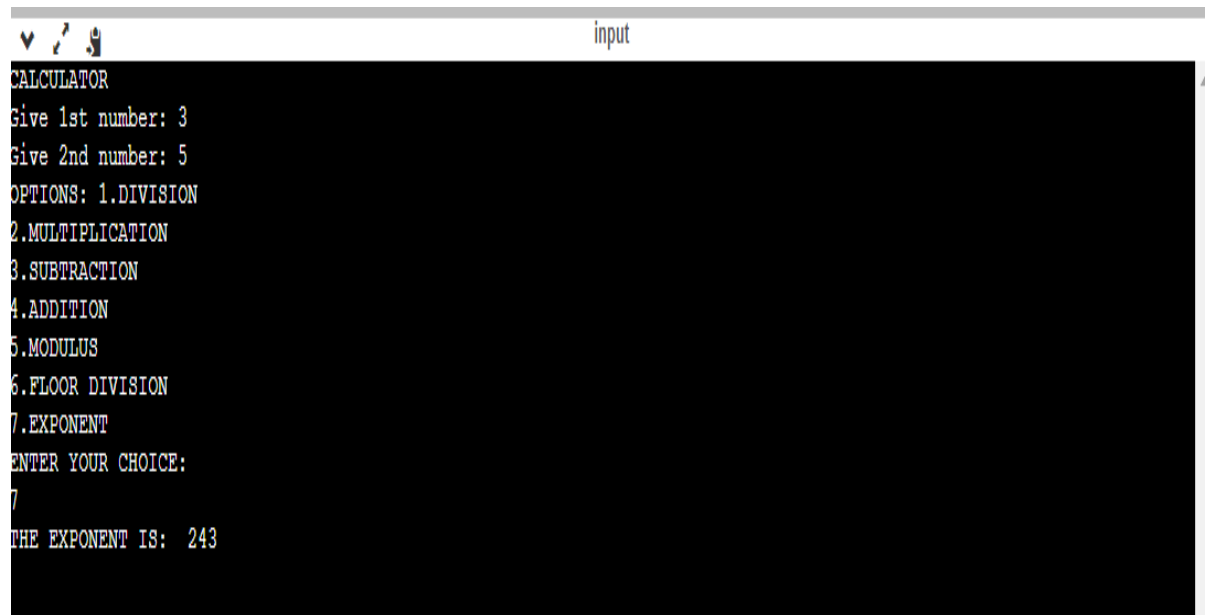
2) Write a calculator program in python

PROGRAM:

```
print("CALCULATOR")
a=int(input("Give 1st number: "))
b=int(input("Give 2nd number: "))
choice=int(input("OPTIONS:
1.DIVISION\n2.MULTIPLICATION\n3.SUBTRACTION\n4.ADDITION\n5.MODULUS\n6.F
LOOR DIVISION\n7.EXPONENT\nENTER YOUR CHOICE:\n"))
if(choice==1):
    c=int(a/b)
    print("THE QUOTIENT IS: ",c)
elif(choice==2):
    c=int(a*b)
    print("THE PRODUCT IS: ",c)
elif(choice==3):
    if(a>b):
        c=int(a-b)
```

```
    else:
        c=int(b-a)
    print("THE DIFFERENCE IS: ",c)
elif(choice==4):
    c=int(a+b)
    print("THE SUM IS: ",c)
elif(choice==5):
    c=int(a%b)
    print("THE REMAINDER IS: ",c)
elif(choice==6):
    c=int(a//b)
    print("THE VALUE IS: ",c)
elif(choice==7):
    c=int(a**b)
    print("THE EXPONENT IS: ",c)
else:
    print("CHOOSE VALID CHOICE!")
```

OUTPUT:



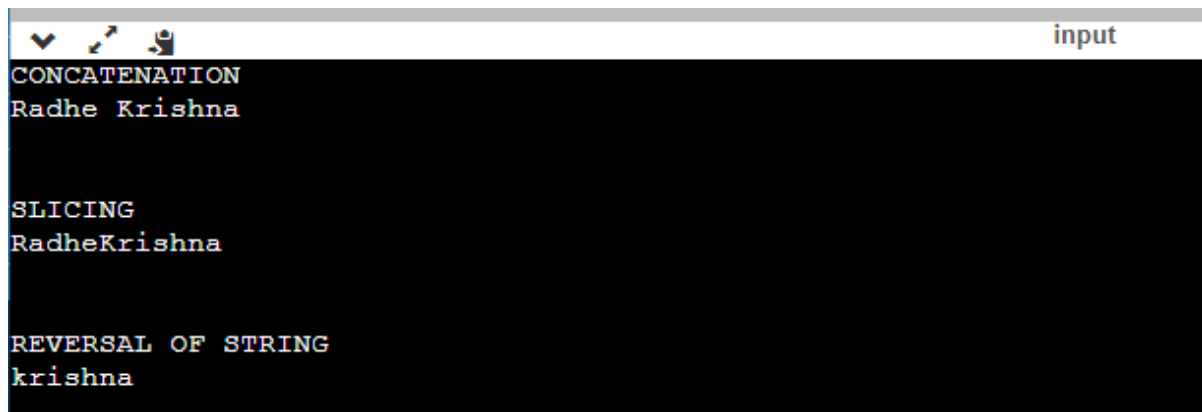
```
input
CALCULATOR
Give 1st number: 3
Give 2nd number: 5
OPTIONS: 1.DIVISION
2.MULTIPLICATION
3.SUBTRACTION
4.ADDITION
5.MODULUS
6.FLOOR DIVISION
7.EXPONENT
ENTER YOUR CHOICE:
7
THE EXPONENT IS: 243
```

3) Write a program to concatenate, reverse and slice a string?

PROGRAM:

```
print("CONCATENATION")
a="Radhe"
b="Krishna"
print(a+" "+b)
print("\n")
print("SLICING")
a="RadheKrishna1234"
print(a[0:len(a)-4])
print("\n")
print("REVERSAL OF STRING")
a="anhsirk"
print(a[::-1])
```

OUTPUT:

A screenshot of a Python terminal window with a dark background. The window title bar shows standard icons and the word 'input'. The terminal output is as follows:

```
CONCATENATION
Radhe Krishna

SLICING
RadheKrishna

REVERSAL OF STRING
krihsnar
```

4) Why is Python a popular programming language?

- Python uses a simplified syntax with an emphasis on natural language
- It is light-weight, general purpose, easy to learn and use, versatile language

- It is very much useful for developing web applications
- It is flexible and reliable
- It contains various libraries and frameworks
- It is used for automation purposes

5) What are the other frameworks that can be used with Python?

A: Some of the frameworks used with python are:

- Django
- Flask
- CherryPy
- Web2Py
- Bottle

6) Full form of WSGI?

A: WSGI refers to Web Server Gateway Interface