

S.No: 1

Exp. Name: **Write python program to print Hello World**

Date: 2023-03-20

Aim:

Write python program to print Hello World

Source Code:

printWord.py

```
print('Hello World')
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Hello World

S.No: 2

Exp. Name: ***Write a python program to get string, int, float input from user***

Date: 2023-03-20

Aim:

Write a python program to get string, int, float input from user

Source Code:

dataTypes.py

```
a=input('Enter any string: ')
print(a)
b=int(input('Enter number: '))
print(b)
c=float(input('Enter float input: '))
print(c)
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter any string:

CodeTantra

CodeTantra

Enter number:

12

12

Enter float input:

13.3

13.3

Aim:

Python Program to Add Two Numbers

Source Code:

add.py

```
x=int(input('Enter First Number '))
y=int(input('Enter Second Number '))
c=x+y
print('Sum =',c)
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter First Number

36

Enter Second Number

96

Sum = 132

Test Case - 2

User Output

Enter First Number

96

Enter Second Number

-85

Sum = 11

Test Case - 3

User Output

Enter First Number

-2

Enter Second Number

-3

Sum = -5

S.No: 4

Exp. Name: **Write a python program to Create a list and perform the following methods 1) insert() 2) remove() 3) append()4) len() 5) pop() 6)clear()**

Date: 2023-05-18

Aim:

Write a python program to Create a list and perform the following methods 1) insert() 2) remove() 3) append()4) len() 5) pop() 6)clear()

Source Code:

listop.py

```
n=list(input('Enter Elements Separated by ,(Comma) : ').split(","))
p=int(input('Enter Position to Insert element : '))
x=input('Enter Element to Insert : ')
n.insert(p,x)
print('Element inserted to the list')
print('Before Removing Element List : ',n)
y=input('Enter Element to Remove : ')
if y not in n:
    print('Element not Exist')
else:
    n.remove(y)
    print('Element Removed from list')
print('After Removing Element List : ',n)
b=(input('Enter element to add : '))
n.append(b)
print('Element added to the list')
print('After Adding Element List : ',n)
print('List length : ',len(n))
z=int(input('Enter Element index to Remove : '))
if z>len(n):
    print('Index not Exist')
else:
    n.pop(z)
    print('Element Removed from list')
print('Before Clearing the Elements list : ',n)
n.clear()
print('After Clearing the Elements list : ',n)
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter Elements Separated by ,(Comma) :

1,2,3,4

Enter Position to Insert element :

4

Enter Element to Insert :

5

Element inserted to the list

Before Removing Element List : ['1', '2', '3', '4', '5']

Enter Element to Remove :

3

Element Removed from list

After Removing Element List : ['1', '2', '4', '5']

Enter element to add :

3

Element added to the list

After Adding Element List : ['1', '2', '4', '5', '3']

List length : 5

Enter Element index to Remove :

2

Element Removed from list

Before Clearing the Elements list : ['1', '2', '5', '3']

After Clearing the Elements list : []

Test Case - 2

User Output

Enter Elements Separated by ,(Comma) :

10,23,34,45

Enter Position to Insert element :

2

Enter Element to Insert :

56

Element inserted to the list

Before Removing Element List : ['10', '23', '56', '34', '45']

Enter Element to Remove :

43

Element not Exist

After Removing Element List : ['10', '23', '56', '34', '45']

Enter element to add :

10

Element added to the list

After Adding Element List : ['10', '23', '56', '34', '45', '10']

List length : 6

Enter Element index to Remove :

99

Index not Exist

Before Clearing the Elements list : ['10', '23', '56', '34', '45', '10']

After Clearing the Elements list : []

S.No: 5

Exp. Name: ***Write a python program that prints list element and its length.***

Date: 2023-05-18

Aim:

Write a python program that prints list element and its length

Source Code:

listLength.py

```
x=list(input("Enter comma separated list elements: ").split(","))
for i in x:
    print(i,len(i))
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter comma separated list elements:

cow,elephant,tiger,fish

cow 3

elephant 8

tiger 5

fish 4

Test Case - 2

User Output

Enter comma separated list elements:

apple,banana,chikoo,dragonfruit,grapes

apple 5

banana 6

chikoo 6

dragonfruit 11

grapes 6

Aim:

Write a program to read two `int` inputs from the user and perform the following arithmetic operations `addition`, `subtraction`, `multiplication`, and `division` and print the result.

During execution, the program should print the message on the console as:

```
num1:  
num2:
```

For example, if the user gives the input as:

```
num1: 40  
num2: 10
```

Sample Input and Output:

```
Addition of 40 and 10 = 50  
Subtraction of 40 and 10 = 30  
Multiplication of 40 and 10 = 400  
Division of 40 and 10 = 4.0
```

Source Code:**Arithexample2.py**

```
num1 = int(input ("num1: "))  
num2 = int(input ("num2: "))  
  
# Print the addition of num1 and num2  
# Print the subtraction of num1 and num2  
# Print the multiplication of num1 and num2  
# Print the division of num1 and num2  
print("Addition of",num1,"and",num2,"=",num1+num2)  
print("Subtraction of",num1,"and",num2,"=",num1-num2)  
print("Multiplication of",num1,"and",num2,"=",num1*num2)  
print("Division of",num1,"and",num2,"=",num1/num2)
```

Execution Results - All test cases have succeeded!

Test Case - 1	
User Output	
num1:	
40	
num2:	
20	
Addition of 40 and 20 = 60	
Subtraction of 40 and 20 = 20	
Multiplication of 40 and 20 = 800	
Division of 40 and 20 = 2.0	

Test Case - 2

User Output

num1:

26

num2:

13

Addition of 26 and 13 = 39

Subtraction of 26 and 13 = 13

Multiplication of 26 and 13 = 338

Division of 26 and 13 = 2.0

S.No: 19

Exp. Name: **Write a program to check whether the given number is positive or not.**

Date: 2023-06-01

Aim:

Take an integer `num` as input from the console using `input()` function. Write a program to check the given `num` is a `positive` or a `negative` one, print the result to the console as shown in the examples.

Sample Input and Output 1:

```
num: 02  
positive
```

Sample Input and Output 2:

```
num: -52142  
negative
```

Sample Input and Output 3:

```
num: 0  
zero
```

Source Code:

Number.py

```
n=int(input('num: '))  
if n>0:  
    print('positive')  
elif n==0:  
    print('zero')  
else:  
    print('negative')
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

```
num:  
92  
positive
```

Test Case - 2

User Output

```
num:  
-52142  
negative
```

Test Case - 3

User Output

num:

0

zero

S.No: 23

Exp. Name: **Write a python program to add natural numbers up to sum = 1+2+3+.... +n take the input from the user by using While Loop.**

Date: 2023-06-01

Aim:

Write a python program to add natural numbers up to sum = 1+2+3+.... +n take the input from the user by using While Loop.

Source Code:

sumusingwhile.py

```
n=int(input('Enter n value : '))
i=1
sum=0
while i<=n :
    sum=sum+i
    i=i+1
print("Sum : ",sum)
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter n value :

3

Sum : 6

Test Case - 2

User Output

Enter n value :

6

Sum : 21

S.No: 24

Exp. Name: **Program to find factorial of a number**

Date: 2023-06-01

Aim:

Write a program to find the factorial of a given number

Source Code:

Fac.py

```
n=int(input('Enter a number: '))
i=1
f=1
while i<=n:
    f=f*i
    i=i+1
print('Factorial of ',n,'is',f)
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

Enter a number:

4

Factorial of 4 is 24

Test Case - 2

User Output

Enter a number:

15

Factorial of 15 is 1307674368000

Test Case - 3

User Output

Enter a number:

1

Factorial of 1 is 1