I/O Function

```
1  n1=input('Enter a number:')
2  print("n1 value is :",n1)
```

```
PROBLEMS    OUTPUT    TERMINAL    JUPYTER    DEBUG CONSOLE

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
Enter a number:10
n1 value is : 10
PS C:\Users\Kashyap patel>
```

2.

```
4  n1=int(input('Enter number1:'))
5  n2=int(input('Enter number2:'))
6
7  ans=n1+n2
8
9  print(ans)
```

```
PROBLEMS    OUTPUT    TERMINAL    JUPYTER    DEBUG CONSOLE

PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
Enter number1:10
Enter number2:50
60
PS C:\Users\Kashyap patel>
```

Arithmetic Operators

```
1   x=10
2   y=50
3
4   print('x+y=',x+y)
5
6   print('x-y=',x-y)
7
8   print('x*y=',x*y)
9
10  print('x/y=',x/y)
11
12  print('x//y=',x//y)
13  |
14  print('x**y=',x**y)
15
```

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
x+y= 60
x-y= -40
x*y= 500
x/y= 0.2
x//y= 0
x**y= 10000000000000000000000000000000000000000000000000000000000
```

Comparison operators

```
1   x=10
2   y=6
3
4   print('x>y is',x>y)
5
6   print('x<y is',x<y)
7
8   print('x==y is',x==y)
9
10  print('x!=y is',x!=y)
11
12  print('x>=y is',x>=y)
13
14  print('x<=y is',x<=y)
15  |
```

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
x>y is True
x<y is False
x==y is False
x!=y is True
x>=y is True
x<=y is False
```

Logical operators

```
1    n1=10
2    n2=20
3    n3=30
4
5    if n1>n2 and n1>n3 :
6        print("n1 is largest number ")
7
8    if n2>n1 and n2>n3 :
9        print("n1 is largest number ")
10
11   if n3>n1 and n3>n2 :
12       print("n1 is largest number ")
13
```

PROBLEMS   OUTPUT   TERMINAL   JUPYTER   DEBUG CONSOLE

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
n1 is largest number
```

Membership Operators

```
1    x=10
2    y=6
3    list1=[10,20,30,40,50]
4
5    print(x in list1)
6    print(y in list1)
7    print(y not in list1)
```

PROBLEMS   OUTPUT   TERMINAL   JUPYTER   DEBUG CONSOLE

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
True
False
True
```

Identity Operators

```
1    x=20
2    y=20
3
4    print(x is y)
5
6    print(x is not y)
```

PROBLEMS   OUTPUT   TERMINAL   JUPYTER   DEBUG CONSOLE

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
True
False
```

Conditional Statements

if Statement

```
1    x=10
2    y=20
3
4    if x>y:
5        print("x Is greter number")
6
7    if y>x:
8        print("y is greter number")
```

```
False
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
y is greter number
PS C:\Users\Kashyap patel> 
```

If...else Statement

```
1    x=10
2    y=20
3
4    if x>y:
5        print("x Is greter number")
6
7    else:
8        print("y is greter number")
```

```
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
y is greter number
PS C:\Users\Kashyap patel> 
```

if...elif...else Statement

```
1    x=10
2    y=20
3
4    if x==y:
5        print("Both number are equals")
6
7    elif x>y:
8        print("x is greter number")
9
10   else:
11       print("y is greter number")
```

```
hip/function.py"
y is greter number
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inters
hip/function.py"
y is greter number
PS C:\Users\Kashyap patel> 
```

Nested if statements

```python
x=20

if x>=0:
    if x==0:
        print("Zero")
    else:
        print("x is positive number")

else:
    print("x is negative number")
```