

Types Of User Define Functions

```
1 def my_function():
2     print("Hello word")
3
4 my_function()
5 my_function()
6
```

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/Inter
hip/Types Of User Define Functions.py"
Hello word
Hello word
```

Example with return Statement

```
4 def my_function(name):
5     return name
6 name = my_function("Akash Technolabs")
7 print(name)
8
```

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

```
Hello word
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inter
hip/Types Of User Define Functions.py"
Akash Technolabs
PS C:\Users\Kashyap patel>
```

Example With Argument

```
4 def my_function(name):
5     print("name is :", name)
6 my_function("Akash Technolabs")
7
8
```

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/Inter
hip/Types Of User Define Functions.py"
name is : Akash Technolabs
```

Example With Multiple Return Statement

```
4 def my_function():
5     name= " Akash Techonlabs"
6     contact = 9978621654
7     return name,contact
8
9 name ,contact = my_function()
10 print("name :",name)
11 print("Contact :", contact)
12
```

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

```
name is : Akash Technolabs
PS C:\Users\Kashyap patel> & "C:/Users/Kashyap patel/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Kashyap patel/Desktop/Inter
hip/Types Of User Define Functions.py"
name : Akash Techonlabs
Contact : 9978621654
```

Python Default Arguments

```
1 def sum(a=5,b=7):
2     |
3     |     print (a+b)
4     |
5     |     sum(10,20)
6     |     sum()
```

PROBLEMS OUTPUT **TERMINAL** JUPYTER DEBUG CONSOLE

```
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hip/Types Of User Define Functions.py"
30
12
```

Python Keyword Arguments

```
1 def sum(a,b):
2     |
3     |     print ("Sum is :",a+b)
4     |
5     |     sum(a=10,b=20)
```

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/Inter
hip/Types Of User Define Functions.py"
Sum is : 30
```

Example (Non Keyword Arguments)

```
1 def add(*num):
2     |     sum=0
3     |     for n in num:
4     |         |     sum=sum+ n
5     |         |     print("sum :",sum)
6     |
7     |     add(10,20)
8     |     add(10,20,30)
```

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/Inter
hip/Types Of User Define Functions.py"
sum : 30
sum : 60
```

Example (Keyword Arguments)

```
1 def my_func(**arg):
2     |     for i,j in arg.items():
3     |         |     print(i,j)
4     |
5     |     my_func(name='akash',Lastname='padhiyar')
```

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/Inter
hip/Types Of User Define Functions.py"
name akash
Lastname padhiyar
```

Scope of Variables

```
1 def my_func():
2     |     x=10
3     |     print("Value inside function :",x)
4     |
5     |     x=20
6     |     my_func()
7     |     print("Value inside function :",x)
```

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/Inter
hip/Types Of User Define Functions.py"
Value inside function : 10
Value inside function : 20
```

Significance of Indentation (Space) in Python

```
1  def my_function():  
2      | print("Hello Word")  
3  
4  my_function()  
5  my_function()
```

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/Inter  
hip/Types Of User Define Functions.py"  
Hello Word  
Hello Word
```