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Function

Type of Function:

- 1- Built-in Function
- 2- User defined Function
- 3- Anonymous Function

```
In [ ]: # 1- Built-in Function
         print("Hello")
         len("john")
         type()
         input()
         int()
         str()
         dict()
 In [1]: # 2- User defined Function
         # 1
         def greet():
             return f"Hello world"
         greet()
 Out[1]: 'Hello world'
In [10]: # 2
         # Function
         def greet(name):
              return f"Hello : {name}"
```

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```
# calling the function
         print(greet("John"))
         print(greet("Bob"))
        Hello : John
        Hello : Bob
 In [ ]: # Defined input Paraters types
         # 1- Default arguments(parameters)
         # 2- Required arguments
         # 3- keyword arguments
         # 4- variable-length arguments
In [17]: # 1- Default arguments(parameters)
         def user_name(name = "Bob"):
             return name
         print(user_name())
         # 2
         def greet_with_title(name = "John", title = "Mr"):
             return f"Hello {title} {name}"
         greet_with_title("bob")
        Bob
Out[17]: 'Hello Mr bob'
In [20]: # 2- Required arguments(parameters)
         def add(value1, value2):
             sum_output = value1 + value2
             return sum_output
         add(10,20)
Out[20]: 30
In [22]: # 3- Keyword arguments
         def print_the_name(name, age):
             return f" {name} {age}"
         print_the_name(name = "John Cena", age = 40)
Out[22]: ' John Cena 40'
In [25]: # 4 Variable length arguments
         def names(*names):
             for name in names:
                  print(name)
```

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```
Lst = ["amit","pranav","deepak","raghav"]
names(Lst)
['amit', 'pranav', 'deepak', 'raghav']
In []:
```