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In [5]: # Simple Function

def something():
    print("Hello World!")

something()

Hello World!
```

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In [6]: # Argument Function

def some(name, age):
    print("Name is ", name)
    print("Age is ", age)

some("Utsav", 28)

Name is  Utsav
Age is  28
```

```
In [7]: # key word Function

def some(name, age, course):
    print("Name is ", name)
    print("Age is ", age)
    print("Course is ", course)

some(age=28, course="Python", name="Utsav")

Name is  Utsav
Age is  28
Course is  Python
```

```
In [8]: # Return Value function

def some(a, b):
    return a+b*a-b+a*b

x = 30
y = 10
print(some(x,y))

320
```

```
In [12]: # default value function

def some(name="Guest", age=18, course="Python"):
    print("Name is", name)
    print("Age is", age)
    print("Course is", course)

some("Utsav")
print(".....")
some("Utsav", 28)

Name is Utsav
Age is 18
Course is Python
.....
Name is Utsav
Age is 28
Course is Python
```

```
In [13]: # args function

def some(*args):
    print(args)
    for x in args:
        print(x)

some(12,43,6)
print(".....")
some(12,43,6,654,876,9,76)
print(".....")
some(12)
print(".....")
a = (12)
print(type(a))

(12, 43, 6)
12
43
6
.....
(12, 43, 6, 654, 876, 9, 76)
12
43
6
654
876
9
76
.....
(12,)
12
.....
<class 'int'>
```

```
In [14]: # kwargs functions

def some(a,b,*args,**kwargs):
    print(kwargs)
    print(args)

some(2,4,Name="Utsav", Age=28, Course="Python")
print(".....")
some(21,54,Name="Utsav", Age=28, Course="Python", id=9)
print(".....")
some(23,54,32,Name="Utsav")
print(".....")
some(323,3,12)

{'Name': 'Utsav', 'Age': 28, 'Course': 'Python'}
()
.....
{'Name': 'Utsav', 'Age': 28, 'Course': 'Python', 'id': 9}
()
.....
{'Name': 'Utsav'}
(32,)
.....
{}
(12,)
```

```
In [ ]: # Python program to illustrate : *kwargs for variable number of keyword arguments
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In [15]: def myFun(**kwargs):
    for key, value in kwargs.items():
        print ("%s == %s" %(key, value))

# Driver code
myFun(first ='Geeks', mid ='for', last='Geeks')

first == Geeks
mid == for
last == Geeks
```

```
In [16]: def myFun(arg1, arg2, arg3):
    print("arg1:", arg1)
    print("arg2:", arg2)
    print("arg3:", arg3)

# Now we can use *args or **kwargs to
# pass arguments to this function :
args = ("Geeks", "for", "Geeks")
myFun(*args)
print(".....")
kwargs = {"arg1" : "Geeks", "arg2" : "for", "arg3" : "Geeks"}
myFun(**kwargs)

arg1: Geeks
arg2: for
arg3: Geeks
.....
arg1: Geeks
arg2: for
arg3: Geeks
```

```
In [17]: def myFun(*args,**kwargs):
    print("args: ", args)
    print("kwargs: ", kwargs)

# Now we can use both *args ,**kwargs
# to pass arguments to this function :
myFun('geeks','for','geeks',first="Geeks",mid="for",last="Geeks")

args:  ('geeks', 'for', 'geeks')
kwargs:  {'first': 'Geeks', 'mid': 'for', 'last': 'Geeks'}
```

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In [ ]:
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