

```
In [1]: 1 ## task -17 functions
        2 # A function is a block of code which only runs when it is call
        3
        4 def func():
        5     print('this is function')
        6 func()
        7
```

this is function

```
In [5]: 1 def func(a,b):
        2     print('this is function',a,b)
        3 func(15,20)
        4
```

this is function 15 20

```
In [15]: 1 ## * is arg(argument) , * use for tuple
        2
        3 def func(*a):
        4     print('function',a)
        5 func(25,26,'hai')
```

function (25, 26, 'hai')

```
In [19]: 1 def func(**a):          # ** uses for dictionary
        2     print('function',a)
        3 func(vehicle='bus',cost=200)
```

function {'vehicle': 'bus', 'cost': 200}

```
In [28]: 1
        2 def func(a,b=2,c=3):
        3     print('this is func',a,b,c)
        4 func(1,2,3)
        5 func(1,2)
        6 func(1)
```

this is func 1 2 3
this is func 1 2 3
this is func 1 2 3

```
In [50]: 1 def outer():
2         print('this is outer')
3         def inner():
4             print('this is inner')
5         inner()
6     outer()
```

```
this is outer
this is inner
```

```
In [39]: 1 def add(a,b):
2         return a+b
3     add(8,5)
```

```
Out[39]: 13
```

```
In [40]: 1 def sub(a,b):
2         return a-b
3     sub(15,9)
```

```
Out[40]: 6
```

```
In [65]: 1 def mul(a,b):
2         return a*b
3     mul(8,5)
```

```
Out[65]: 40
```

```
In [66]: 1 def div(a,b):
2         return a/b
3     div(8,5)
```

```
Out[66]: 1.6
```