

FUNCTIONS IN PYTHON Cheat Sheet

by sahusourabh via cheatography.com/156407/cs/33269/

WHY FUNCTIONS?

Repetitions (Birthday song)

print("Happy birthday to you!")

print("Happy birthday to you!")

print("Happy birthday to Dear name")

print("Happy birthday to you!")

print("Happy birthday to you!")

print("Happy birthday to you!")

print("Happy birthday to you!")

print("Happy birthday to Dear name")

print("Happy birthday to you!")

print("Happy birthday to you!")

function with argument (custom birthday wishes)

def wishBirthday(name): #passing
argument/parameter

" " "This function is used to

wish birthday to someon e"""

happy()

happy()

print(" Happy birthday to you

dear",n ame ,'!')

happy()

wishBi rth day ("So ura bh")

wishBi rth day ("Ja ck")

Function required argument

```
1 def showme(str): #required argument
2 print(str)
3 return
4 showme("Sourabh")
5 showme(")
5 showme(")
Traceback (most pagent call last)
```

default arguments in PYTHON

```
1 def showme(name,contact,age="18"): #default argument
2 print(name,contact,age)
3 showme("mam,"364344343")
4 showme("shyam","343444333","38")
5 showme("will", "34344333",age="33")
8 #343434341
```

By sahusourabh

cheatography.com/sahusourabh/

map function in PYTHON

```
2 def add(x,y): #mapping

3 return x+y

4 lstx[0,20,30,40,50]

5 lstx[0,20,30,40,50]

6 print(lst)

7 print("map(add,lst,lst2))

10, 20, 30, 40, 50]

0 40 60 80 100
```

Lets define function

def happy():

print("Happy birthday to you!")

:#definition of function

happy() #calling of function

happy()

print("Happy birthday to you dear name")

happy()

happy()

happy()

happy()

print("Happy birthday to you dear name")

happy()

happy()

help/ documentation of function

using . operator wishBirthday.__doc__
using help function help(wishBirthday)
help(len)

keyword arguments in PYTHON

```
1 def showme(str,str2):
2 print(str)
3 print(str2)
4 return
5 #Showme("Sourabh")
6 showme(stra"Ram",str2a"Shyam") #Keyword argument
Ram
Shyam
```

LAMBDA Function (no name)

```
1 #lands function
2
3 def sum(a,b):
4 return a-b
5 sum(10,20)
30
1 t=lambda a,b:a+b
2 print(t(10,30))
40
```

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Multiple functions

```
def wishSourabh():
happy()
happy()
     print( " Happy birthday to
dear Sourab h")
     happy()
def wishJa ck():
happy()
happy()
print( " Happy birthday to dear
Jack")
happy()
wishSo urabh()
```

Function can return multiple parameters in PYTHON

```
1 def getSumAndDiff(a,b): #multiple return values
2 return a+b,a-b
3 print(getSumAndDiff(20,10))
(30, 10)
```

Variable Arguments in PYTHON

```
1 def sum('nos): Evariable length argument

2 sume0

3 forn in nos:

4 sumesumen

5 return sum

6 sum(10,20,30,40)

7 sum(10,20,30,40,50,60,70,34,34,45,55,6)
```

Global in functions

```
1 s1=0 mglobal variable
2 def sum(a,b,c):
3 sla=btc
4 return s1
5 print(sum(12,20,30)) #60
6 print(s1) #0
7 # output wil remain 0 inner s1 has function level scope

1 s1=0 mglobal variable
2 def sum(a,b,c):
3 global s1
4 sla=btc
5 return s1
6 print(sum(10,20,30)) #60
7 print(s1)
60
60
```

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