Cheatography

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 someone"""

happy()

happy()

print("Happy birthday to you

dear", name, '!')

happy()

wishBirthday("Sourabh")

wishBirthday("Jack")

Function required argument

4 showme("Sourabh")
5 showme()

Traceback (most recent call last)

default arguments in PYTHON

ame,contact,age="18"): #default argument 2 print(name,contact,age)
3 showme("Ram","343434343")
4 showme("Shyam","343434333","33")
5 showme("Will","343434333",age="33")

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map function in PYTHON

3 return x+y
4 lst=[10,20,30,40,50]
5 lst2=[10,20,30,40,50]
6 print(lst)
7 print(*map(add,lst,lst2)) 10, 20, 30, 40, 50]

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

wishBirthday.__doc__ using . operator

using help function help(wishBirthday)

help(len)

keyword arguments in PYTHON

1 def showme(str,str2): 2 print(str) 3 print(str2) 4 return 1 return 5 #showme("Sourabh") 5 showme(str="Ram",str2="Shyam") #keyword arg

LAMBDA Function (no name)

1 #lamda function 3 def sum(a,b): 4 return a+b 5 sum(10,20)

Multiple functions

def wishSourabh():

happy()

happy()

print("Happy birthday to

dear Sourabh")

happy()

def wishJack():

happy()

happy()

print("Happy birthday to dear

Jack")

happy()

wishSourabh()

(30, 10)

wishJack()

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))

Variable Arguments in PYTHON

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Global in functions

1 sle0 #global variable
2 def sun(a,b,c):
3 slaa+bc
4 return s1
5 print(sun(a,2,0,30)) #60
6 print(sul(a,20,30)) #60
6 print(sul) #60
7 foutput vall remain 0 inner s1 has function level scope 1 s1=0 #global variable 2 def sum(a,b,c): 3 global s1 4 s1=a+b+c 5 return s1 6 print(sum(10,20,30)) #60 7 print(s1) 6 print(sum(7 print(s1)

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