Q. Explain what is default and required arguments with an example of each.

Ans. **(A) Required Arguments:**

* Required arguments are the type of arguments which is assigned to the function and It is necessary to give the value while calling the function.
* For Example:

def sub(a,b)

return a – b

sub(20,10)

#OUTPUT: 10

**(B) Default Arguments:**

* Default values indicate that the function argument will take that value if no arguments value is passed during the function call. The default value is assigned by using the assignment (=) operator of the form keywordname=value.
* For Example:

def add(a=10,b=20):

return a+b

add()

#OUTPUT : 30

* If there is Mixture of Default and Required Arguments then the Default Argument should always kept at the last. Because if we denote the default arguments at start or in between, while calling the function and giving the arguments value then the values will be assigned to the default arguments and the required arguments will not get the values and cause Error.
* For Example:

def add(a,b,c=10)

return a+b+c

add(20,30)

#OUTPUT : 60

# a and b will get the value 20,30 respectively and c has the default value

def add(a,b=10,c)

return a+b+c

add(20,30)

#OUTPUT: Error

# a will get value 20 and b having default value 10 will be reassign by 20 and the c is remained blank which is an required argument .