Types Of Argument

```
# Types of arguments in python(Over view Only)
# 1. Positional arguments
def power(a,b):
    return a**b
print(power(2,3))
# 2. Default arguments
def power(a = 1, b = 1):
    return a**b
print(power(3,4))
# 3. Keyword arguments
def power(a,b):
   return a**b
print(power(b = 5, a = 2))
# 4. Arbitary arguments
def power(*number): # *number act as an tuple, which contain n number of parameters.
   temp = 1
    print(type(number))
   for i in number:
       temp *= i
   return temp
print(power(1,2,3,4))
```

1) Positional arguments

```
# 1. Positional Arguments
def display(name,age,address):
    print(name)
    print(age)
    print(address)

name = 'Hitendra'
age = 18
address = 'rajasthan'
display(name,age,address)
```

2) Keyword arguments

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3) Default arguments

4) Arbitrary arguments

5) Keyword Arbitrary arguments

```
#5. Keywords Arbitary Arguments
def display(**n):
                                   #pointers to the pointers for accessing actual argumnets
 print(n['name'])
                                   #N numbers of acutal/keyword arguemnts in single formal arguments
 print(n['age'])
                                  #Accessing name[default arguments names] for accessing an single values
 print(n)
                                  #advantges: doesn't remember the no. of actaul arguments
n = 'shanu'
                                   #return type is an dict
age = 18
address = 'rajasthan'
                                   #direct passing is not allowed in actual arguemnts as we are using keywords
#indirect passing is allowed but later that value upadted by keyword arguments.(name = 'sahnu')
display(name = 'Himesh', age = 22, address = 'rawatbahta')
```

String Behavior

```
#string doesn't get updated while passing into an function as, strings are immutable

def fun1():
    a = "abc"+"d"

a = "abc"
print(a)
fun1()
print(a)
```

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```
# Tuples Behavior
#tuples doesn't get updated while passing into an function as, tuples are immutable
def fun1(tuple1):
  list1 = list(tuple1)
  list1.append(3)
 tuple1 = tuple(list1)
  print(tuple1)
tuple1 = (1,2)
print(tuple1)
fun1(tuple1)
print(tuple1)
# Set Behavior
#set get updated while passing into fucntion as, sets are mutable.
def fun1(set1):
  set1.add(50)
set1 = {1,2,34,7,32,100,100}
print(set1)
fun1(set1)
print(set1)
# List Behavior
#list get updated while passing into fucntion as, list are mutable.
def fun1(list1):
  list1.remove(1)
list1 = [1,2,3,4]
print(list1)
fun1(list1)
print(list1)
# Dictionary Behavior
#Dictionary get updated while passing into fucntion as, Dictionary are mutable.
def fun1(dict1):
  dict1[101] = "hitendra"
  dict1[104] = "ujesh"
dict1 = {101:"rakesh",102:"ramesh",103:"suresh"}
print(dict1)
fun1(dict1)
print(dict1)
```