```
In [1]: | 1 | def number_swap(num):
           num = 77
              print(num)
         3
         4
         5 \mid my_num = 5
         6 print("Before -> {0}".format(my num)) #5
         7 | number_swap(my_num)
         Before -> 5
        77
        After -> 5
In [2]: 1 def pass by refrence(a list):
              a list.append("4")
               a list.append("5")
         4
               a list.append("6")
         5
         6 my list = [0,1,2]
         7 print("Before -> {0}".format(my list)) #[0,1,2]
         8 pass by refrence(my list)
        Before -> [0, 1, 2]
        After -> [0, 1, 2, '4', '5', '6']
In [3]: 1 def pass by value(a list):
           alt list = list(a list) #create a copy
         3
              alt_list.append("4")
              alt list.append("5")
         4
         5
               alt list.append("6")
         6
         7 my list = [0,1,2]
         8 print("Before -> {0}".format(my list)) #[0,1,2]
         9 pass by value(my list)
        Before -> [0, 1, 2]
        After -> [0, 1, 2]
In [4]: 1 def pass by value2(a list):
         a list = [4,5,6] #you can't assign it ! but you can modify it using method
         4 \text{ my\_list} = [0,1,2]
         5 print("Before -> {0}".format(my_list)) #[0,1,2]
        6 pass_by_value2(my_list)
        Before -> [0, 1, 2]
       After -> [0, 1, 2]
In [6]: | 1 | def pass_by_refrence2(a_list):
         2
               a list.clear()
         3
               a list.append("4")
         4
               a list.append("5")
         5
               a list.append("6")
         7 \text{ my_list} = [0,1,2]
        8 print("Before -> {0}".format(my_list)) #[0,1,2]
        9 pass_by_refrence2(my_list)
       Before -> [0, 1, 2]
        After -> ['4', '5', '6']
```