```
def showdata():
  print('showdata function - start')
  print(x)
  print('showdata function - end')
x = 100
showdata()
   showdata function - start
   showdata function - end
x = 100 # global variable x
def modifydata():
  x = 10 \# local variable x
  print('modifydata function - start')
  print(x)
  print('modifydata function - end')
print(x)
modifydata()
print(x)
   100
   modifydata function - start
   modifydata function - end
x = 100 \# global variable x
def modifydata(): # to modify global variable x value
  global x # local variable x can not be created in-side current funct
  x = 10 \# global variable x
  print('modifydata function - start')
  print(x)
  print('modifydata function - end')
print(x)
modifydata()
print(x)
   modifydata function - start
   modifydata function - end
```

```
print(a,b,c)
                                        Traceback (most recent call last)
    <ipython-input-9-7adbf16321d1> in <module>
    ----> 1 print(a,b,c)
    NameError: name 'a' is not defined
     SEARCH STACK OVERFLOW
def defineglobalvariables():
  global a,b,c
  a = 10
  b = 20
  c = 30
  print(a,b,c)
defineglobalvariables()
print(a,b,c)
    10 20 30
    10 20 30
def shownumbers():
  for i in range(1,11):
    print(i,end=' ')
shownumbers()
    1 2 3 4 5 6 7 8 9 10
x = shownumbers()
print(x)
    1 2 3 4 5 6 7 8 9 10 None
1 = [1,2,5,4,8]
print(l.append(10))
print(1)
    None
    [1, 2, 5, 4, 8, 10]
```

## return

## return is a keyword

## return keyword can be used in function defintion

return keyword is used to exit from current function

## bydefault function block of code ends with return value None

```
def shownumbers():
  for i in range(1,11):
    print(i,end=' ')
  return None
x = shownumbers()
print(x)
   1 2 3 4 5 6 7 8 9 10 None
def shownumbers():
  for i in range(1,11):
    print(i,end=' ')
  return
x = shownumbers()
print(x)
   1 2 3 4 5 6 7 8 9 10 None
def square():
  x = 10
  print(x)
  return x**2
y = square()
print(y)
   10
   100
def getdata():
  return 'lokesh',5,7.25,[1,2,3,4,5],False
a,b,c,d,e = getdata()
print(a,type(a))
print(b,type(b))
print(c,type(c))
```

```
print(d,type(d))
print(e, type(e)t),
    5 <class 'int'>
    7.25 <class 'float'>
    [1, 2, 3, 4, 5] <class 'list'>
    False <class 'bool'>
x = getdata()
print(x)
print(type(x))
    ('lokesh', 5, 7.25, [1, 2, 3, 4, 5], False)
    <class 'tuple'>
def test():
  x = 10
  print(x)
  return x
  x = 'lokesh'
  print(x)
  return x
  x = False
  print(x)
  return x
i = test()
print(i)
    10
    10
i = test()
print(i)
j = test()
print(j)
k = test()
print(k)
    10
    10
    10
    10
    10
    10
def mytest():
  x = 100
  print(x, id(x))
  return x
```

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