```
class myclass:
  x = 100 \# class variable x definition
  def f1(): # class function or method f1 definition
    print('class method or function : f1( )')
    print('class variable x :',myclass.x)
  def f2(self): # object function or method f2 definition
    print('object method or function : f2( )')
    print('object variable x',self.x)
    print('current object memory id :',id(self))
myclass.f1()
    class method or function : f1()
    class variable x : 100
m1 = myclass() # empty object created
m1.x = 'python' # instance or object variable x definition
m2 = myclass() # empty object created
m2.x = 'javascript' # instance or object variable x definition
print('m1 object memory id :',id(m1))
   m1 object memory id : 139643465939216
print('m2 object memory id :',id(m2))
   m2 object memory id : 139643465937488
m1.f2()
   object method or function : f2()
    object variable x python
    current object memory id : 139643465939216
m2.f2()
    object method or function : f2()
    object variable x javascript
    current object memory id : 139643465937488
```

object or instance method or function should have self as a first parameter

- self contains current object reference

```
a1 = int(10)
print(a1)
print(type(a1))
print(id(a1))
    <class 'int'>
    139644518005328
a2 = float(12.23)
print(a2)
print(type(a2))
print(id(a2))
    12.23
    <class 'float'>
    139643465221808
a3 = float()
print(a3)
print(type(a3))
print(id(a3))
    0.0
    <class 'float'>
    139643465432048
```

constructor is a special function

constructor function name : _init _(self)

constructor is an instance or object method

Please do not call constructor method explicitly

during object creation python will call constructor method

implictly

```
class myclass:
  x = 100 # class variable x definition
  def f1(): # class function or method f1 definition
    print('class method or function : f1( )')
    print('class variable x :',myclass.x)
  def __init__(self): # constructor function
    print('object memory id :',id(self))
  def f2(self): # object function or method f2 definition
    print('object method or function : f2( )')
    print('object variable x',self.x)
    print('current object memory id :',id(self))
m1 = myclass()
   object memory id : 139643464329248
print(id(m1))
   139643464329248
m2 = myclass()
   object memory id : 139643966066256
print(id(m2))
   139643966066256
m3 = myclass()
   object memory id : 139644023065808
print(id(m3))
   139644023065808
```

constructor is used to initialize object or instance

```
class myclass:
   def __init__(self): # constructor definition
     self.x = 'python'

def showdata(self):
```

```
print(self.x)

m1 = myclass()

m2 = myclass()

m1.showdata()
    python

m2.showdata()
    python
```

constructor with parameters

```
class myclass:
    def __init__(self,data): # constructor definition
        self.name = data

    def showdata(self):
        print(self.name)

m1 = myclass('srikanth')

m2 = myclass('jagadeesh')

m1.showdata()
        srikanth

m2.showdata()
        jagadeesh
```

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