class Test:

    def \_\_init\_\_(self):

        self.x = 0

class Derived\_Test(Test):

    def \_\_init\_\_(self):

        self.y = 1

def main():

    b = Derived\_Test()

    print(b.x,b.y)

main()

**Answer: There is an error since class B inherits A but variable x isn’t inherited.**

class A:

    def \_\_init\_\_(self, x= 1):

        self.x = x

class der(A):

    def \_\_init\_\_(self,y = 2):

        super().\_\_init\_\_()

        self.y = y

def main():

    obj = der()

    print(obj.x, obj.y)

main())

**Answer: x=1, y=2.**

class A:

    def \_\_init\_\_(self,x):

        self.x = x

    def count(self,x):

        self.x = self.x+1

class B(A):

    def \_\_init\_\_(self, y=0):

        A.\_\_init\_\_(self, 3)

        self.y = y

    def count(self):

        self.y += 1

def main():

    obj = B()

    obj.count()

    print(obj.x, obj.y)

main()

**Answer: x =3, y =1**