*#Program-class*class myclass():  
 x=5  
p1=myclass()  
print(p1.x)  
  
*#program- self*class check:  
 def \_\_init\_\_(self):  
 print("Address of self = ", id(self))  
  
  
obj = check()  
print("Address of class object = ", id(obj))  
  
*# #PROGRAM*class student:  
 def check\_pass\_fail(self):  
 if self.marks >=40:  
 return True  
 else:  
 return False  
  
 def \_\_init\_\_(self,name,marks):  
 self.name = name  
 self.marks=marks  
  
student1 = student("harry" , 85)  
student2 = student("janet" , 30)  
did\_pass=student1.check\_pass\_fail()  
print(did\_pass)  
  
did\_pass=student2.check\_pass\_fail()  
print(did\_pass)  
  
*#program*class student:  
 def \_\_init\_\_(self,name,rollno,dob,city):  
 self.name = name  
 self.dob = dob  
 self.rollno = rollno  
 self.city = city  
  
 def address(self):  
 addr = f"Name: {self.name}\nDOB : {self.dob}\nRollno : {self.rollno}\nCity: {self.city} "  
 return addr  
  
stu1= student("Anandh",100,1998,"chennai")  
stu2 = student("Ram",200,1999,"Thanjavur")  
print(stu1.address())  
print(stu2.address())  
  
*#program -Array*import array  
balance=array.array('i', [300,200,100])  
print(balance[1])  
  
*#program*import array as myarray  
abc = myarray.array('d', [2.5,4.5,6.7])  
print("Array first element is :" , abc[0])  
print("Array last element is :", abc[-1])  
  
*#program - Array slicing*import array as myarray  
abc = myarray.array('q',[3,9,6,5,20,13,19,22,30,25])  
print(abc[1:4])  
print(abc[7:10])

Output:

5

``````````````````````````````````````````````````````````````````

Address of self = 2419910813680

Address of class object = 2419910813680

`````````````````````````````````````````````````````````````````

True

False

````````````````````````````````````````````````````````````````

Name: Anandh

DOB : 1998

Rollno : 100

City: chennai

Name: Ram

DOB : 1999

Rollno : 200

City: Thanjavur

200

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Array first element is : 2.5

Array last element is : 6.7

array('q', [9, 6, 5])

array('q', [22, 30, 25])

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