*#program -print class name*class car:  
 def parts(self):  
 pass  
class bus:  
 def route(self):  
 pass  
b=bus()  
print(b.\_\_class\_\_)  
b1=b.\_\_class\_\_  
print(b1.\_\_name\_\_)  
c=car()  
print(c.\_\_class\_\_)  
classes=c.\_\_class\_\_  
print(classes.\_\_name\_\_)  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
*#Program - Encapsulation*class student:  
 def \_\_init\_\_(self,name,salary,project):  
 self.name=name  
 self.salary=salary  
 self.project=project  
  
 def show(self):  
 print("Name is ",self.name, "salary = ",self.salary)  
  
 def work(self):  
 print("Name is ", self.name,",I am working at ",self.project)  
  
s1=student("Mary",12000,"NLP")  
s1.show()  
s1.work()  
s2 = student("Anderson" ,14000,"HIG")  
s2.show()  
s2.work()  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#Program - public members*class student:  
 def \_\_init\_\_(self,name,salary):  
 self.name=name  
 self.salary=salary  
  
 def printmethod(self):  
 print("Name is ",self.name,"and my salary is ",self.salary)  
  
g=student("Leo ", 10000)  
g.printmethod()  
  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
*#Program-private members*class detail:  
 def \_\_init\_\_(self,name,age,salary):  
 self.name=name  
 self.\_\_age=age  
 self.salary=salary  
  
d=detail("Anamica ",34,23000)  
print("Name is ",d.name,"salary ",d.salary)  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#Program- access private member*class employee:  
 def \_\_init\_\_(self,name,salary):  
 self.name=name  
 self.\_\_salary=salary  
  
 def show(self):  
 print("Name is ",self.name,"and my salary is ",self.\_\_salary)  
  
emp = employee("lara",30000)  
emp.show()  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#program- Name Mangling*class Employee:  
 def \_\_init\_\_(self, name, salary):  
 self.name = name  
 self.\_\_salary = salary  
  
emp = Employee('Jessa', 10000)  
  
print('Name:', emp.name)  
print('Salary:', emp.\_Employee\_\_salary)

OUTPUT:

<class '\_\_main\_\_.bus'>

bus

<class '\_\_main\_\_.car'>

car

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Name is Mary salary = 12000

Name is Mary ,I am working at NLP

Name is Anderson salary = 14000

Name is Anderson ,I am working at HIG

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Name is Leo and my salary is 10000

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Name is Anamica salary 23000

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Name is lara and my salary is 30000

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Name: Jessa

Salary: 10000