

```
In [8]: class person(object):
        def __init__(self,name):
            self.name=name
        def getname(self):
            return self.name
        def isemployee(self):
            return False
class employee(person):
    def isemployee(self):
        return True
emp=person("geek1")
print(emp.getname(),emp.isemployee())
emp=employee("geek2")
print(emp.getname(), emp.isemployee())
```

```
geek1 False
geek2 True
```

```
In [16]: class vehicle:
        def vehic(self):
            print('inside')
class car(vehicle):
    def car_info(self):
        print('inside car')
class jeep(car):
    def jeep_info(self):
        print("jeep inside")
caar=jeep()
caar.vehic()
caar.car_info()
caar.jeep_info()
```

```
inside
inside car
jeep inside
```

```
In [19]: class person:
          def person_info(self,name,age):
              print('inside')
              print('name:',name,'age:',age)
          class company:
              def company_info(self,company_name,location):
                  print('inside company')
                  print(company_name,location)
          class employee(person,company):
              def employee_info(self,salary,skill):
                  print('inside employee')
                  print('salary',salary,skill)
emp=employee()
emp.person_info('jessa',20)
emp.company_info('google','atlanta')
emp.employee_info(1200,'ML')
```

```
inside
name: jessa age: 20
inside company
google atlanta
inside employee
salary 1200 ML
```

```
In [20]: class person:
          def person_info(self,name,age):
              print('inside')
              print('name:',name,'age:',age)
          class company(person):
              def company_info(self,company_name,location):
                  print('inside company')
                  print(company_name,location)
          class employee(company):
              def employee_info(self,salary,skill):
                  print('inside employee')
                  print('salary',salary,skill)
emp=employee()
emp.person_info('jessa',20)
emp.company_info('google','atlanta')
emp.employee_info(1200,'ML')
```

```
inside
name: jessa age: 20
inside company
google atlanta
inside employee
salary 1200 ML
```

```
In [45]: class vehicle:
          def info(self):
              print("this is a vehicle")
          class car(vehicle):
              def car_info(self,name):
                  print('car name is',name)
          class truck(vehicle):
              def truck_info(self,name):
                  print('truck name is',name)
obj1=car()
obj1.info()
obj1.car_info("BMW")
obj2=truck()
obj2.truck_info("Toyato")
```

```
this is a vehicle
car name is BMW
truck name is Toyato
```

```
In [25]: class Vehicle:
          def vehicle_info(self):
              print("Inside Vehicle class")

          class Car(Vehicle):
              def car_info(self):
                  print("Inside Car class")

          class Truck(Vehicle):
              def truck_info(self):
                  print("Inside Truck class")

          class SportsCar(Car, Vehicle):
              def sports_car_info(self):
                  print("Inside SportsCar class")
s_car = SportsCar()

s_car.vehicle_info()
s_car.car_info()
s_car.sports_car_info()
```

```
Inside Vehicle class
Inside Car class
Inside SportsCar class
```

```
In [28]: class company:
          def company_name(self):
              return 'Google'
          class Employee(company):
              def info(self):
                  c_name = super().company_name()
                  print("Jessa works at", c_name)
          emp = Employee()
          emp.info()
```

Jessa works at Google

```
In [30]: class company:
          def company_name(self):
              return 'Google'
          def company_address(self):
              return "Chennai"
          class Employee(company):
              def info(self):
                  c_name = super().company_name()
                  print("Jessa works at", c_name)
                  c_Name=super().company_address()
                  print("jessa lives on",c_Name)
          emp = Employee()
          emp.info()
```

Jessa works at Google
jessa lives on Chennai

```
In [38]: class Company:
        def fun1(self):
            print("Inside parent class")

        class Employee(Company):
            def fun2(self):
                print("Inside child class.")

        class Player:
            def fun3(self):
                print("Inside Player class.")

        # Result True
        print(issubclass(Employee, Company))

        # Result False
        print(issubclass(Employee, list))

        # Result False
        print(issubclass(Player, Company))

        # Result True
        print(issubclass(Employee, (list, Company)))

        # Result True
        print(issubclass(Company, (list, Company)))
```

True
False
False
True
True

```
In [43]: class vehicle:
        def max_speed(self):
            print("max speed is 500 kmph")
        class car(vehicle):
            def max_speed(self):
                print("max speed is 200 kmph")
        Car=car()
        Car.max_speed()
```

max speed is 200 kmph

In []:

In []:

