```
class person:
 def init (self,name,age):
    self.name=name
    self.age=age
class employee:
 def __init__(self, employee_id, salary):
    self.employee_id = employee_id
    self.salary = salary
class manager(person, employee):
 def init (self, name, age, employee id, salary, department):
    person.__init__(self, name, age)
    employee.__init__(self, employee_id, salary)
    self.department = department
 def fun1(self):
    print("the department is:", self.department)
    print("name is:", self.name)
    print("employee id:", self.employee id)
    print("employee salary:", self.salary)
    print("employee age is:", self.age)
x = manager("rakesh", 23, 22, 2000000000, "MCA")
x.fun1()
""print("the department is:",x.department)
print("name is:" ,x.name)
print("employee id:",x.employee_id)
print("employee salary:",x.salary)
print("employee age is:",x.age)""
print("-----")
class shape:
 def __init__(self,side):
    self.side=side
```

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class triangle(shape):
  def __init__(self,side,height):
    super().__init__(side)
    self.height=height
  def area(self):
    area1=(0.5 * self.height* self.side)
    return area1
class rectangle(shape):
  def __init__(self,side,sideb):
    super(). init (side)
    self.sideb=sideb
  def area(self):
    area1=(self.side * self.sideb)
    return area1
tri=triangle(10,20)
print("the area of a traingle is :",tri.area())
rec=rectangle(10,20)
print("the area of a rectangle is:",rec.area())
class A:
  def fun1(self):
    print("this is A")
class B(A):
  def fun2(self):
    print("this is B")
class C(A):
  def fun3(self):
    print("this is C")
```

```
class D(B,C):
  def fun4(self):
    print("this is D")
D.fun1(A)
D.fun2(B)
D.fun3(C)
D.fun4(D)
print("-----")
class vechile:
 def __init__(self,make,model,year):
    self.make=make
    self.model=model
    self.year=year
class car(vechile):
 def __init__(self,make,model,year,numdoors):
    super(). init (make, model, year)
    self.numdoors=numdoors
class bike(vechile):
 def __init__(self,make,model,year,numwheels):
    super().__init__(make, model, year)
    self.numwheels=numwheels
x=car("india","m9",2025,10)
print(x.numdoors)
print(x.year)
print(x.make)
print(x.model)
x=bike("china","m11",2030,20)
print(x.numwheels)
print(x.year)
print(x.make)
```

print(x.model)			
#			
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