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'''1. Write a Python program that demonstrates single
inheritance. Create a parent class called Person with
an attribute name and a method show_name to display
the name. Create a child class called Student
that inherits from the Person class and adds a new
attribute student_id with a method
show_student_id to display the student ID. Create an
object of the Student class, and use it to display
both the name and student ID.'''
class person:
    def name(self):
        self.names=input()
    def show_name(self):
        print("name : ",self.names)
class student(person):
    def stuid(self):
        self.stu_id=int(input())
    def show_stuid(self):
        print("student id : ",self.stu_id)
g=student()
g.name()
g.stuid()
g.show_name()
g.show_stuid()
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'''2. Write a Python program to demonstrate single
inheritance. Create a parent class Employee with
attributes name and salary, and a method
display_details to show the employee's details. Create a
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child class Manager that inherits from Employee and
adds an attribute department, along with a
method display_department to show the department
name. Create an object of the Manager class to
display all details'''
class Employee:
    def __init__(self, name, salary):
        self.name = name
        self.salary = salary
    def display_details(self):
        print(f"Name: {self.name}")
        print(f"Salary: {self.salary}")
class Manager(Employee):
    def __init__(self, name, salary, department):
        super().__init__(name, salary)
        self.department = department
    def display_department(self):
        print(f"Department: {self.department}")
manager = Manager("KRISH",500000, "IT")
manager.display_details()
manager.display_department()
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