Practical Questions on Inheritance in C#

Q1) Define a base class Person with properties Name and Age and a method DisplayInfo() that prints these properties. Create a derived class Student that adds a new property StudentID and a method ShowStudentInfo() which display information of student like StudentID, Name, Age.

Write a C# program to demonstrate how the derived class Student adds new functionality while reusing the base class properties and methods.

Q2) Constructor Chaining

Create a base class **Vehicle** with a constructor that **initializes Make and Model**. Create a derived class **Car** that adds a Year property and initializes all three fields using constructor chaining.

Write a C# program to demonstrate how the constructor of the derived class calls the constructor of the base class using the: base syntax.

Q3) Access Modifiers and Inheritance

Demonstrate how protected members in the base class can be accessed by the derived class but not by external classes.

Create **a base class Employee** with a protected property Salary and a public method GetSalary(). In the derived class **Manager**, modify the salary using IncreaseSalary (int amount) and display Manager information with increased Salary.