ALGORITHM OF THE PROJECT:

**Step1:** Start Microsoft Visual Studio.

**Step 2: On the File menu, point to New, and then select Project.**

**Step 3:** Select **Visual C# Projects** under **Project Types**, and then select **Console Application** under **Templates**.

**Step 4:** Add the following code at the beginning of the Program.cs file and student.cs file.

**Step 5:** Add the following code to the Main method:

static void Main(string[] args)

{

Console.WriteLine("----------student details--------------------------");

student s = new student();

s.getdetails();

s.showdetails();

Console.WriteLine("----------teacher details--------------------------");

teacher t = new teacher();

t.getdetails();

t.showdetails();

Console.WriteLine("----------subject details--------------------------");

subject s1 = new subject();

s1.getdetails();

s1.showdetails();

Console.ReadLine();

}

**Student.cs:**

public class student

{

protected string name;

protected int Class;

protected string section;

public void getdetails()

{

Console.WriteLine("enter the student name");

name = Console.ReadLine();

Console.WriteLine("enter the class");

Class = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("enter the section of class");

section = Console.ReadLine();

}

public void showdetails()

{

Console.WriteLine("student name: "+name);

Console.WriteLine("class: "+Class);

Console.WriteLine("section of class: "+section);

}

}

public class teacher : student

{

string subject;

public void getdetails()

{

Console.WriteLine("enter the teacher name");

name = Console.ReadLine();

Console.WriteLine("enter the class");

Class = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("enter the section of class");

section = Console.ReadLine();

Console.WriteLine("enter the subject");

subject = Console.ReadLine();

}

public void showdetails()

{

Console.WriteLine("teacher name: " + name);

Console.WriteLine("class: " + Class);

Console.WriteLine("section of class: " + section);

Console.WriteLine("subject: "+subject);

}

}

public class subject:student

{

string subjectcode;

public void getdetails()

{

Console.WriteLine("enter the subject name");

name = Console.ReadLine();

Console.WriteLine("enter the subject code");

subjectcode = Console.ReadLine();

}

public void showdetails()

{

Console.WriteLine("subject name: " + name);

Console.WriteLine("subject code: "+subjectcode);

}

}

**Step 6:** On the **Debug** menu, select **Start** to compile and to run the application. Press ENTER to close the **Console** window.

