

CODE:

Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Xml.Linq;
using ClassLibrary1;
```

```
namespace OopsProject
{
    internal class Program
    {
        static void Main(string[] args)
        {
            student stu = new student();
            stu.gettingdetails();
            stu.printthedetails();
            stu = new teacher();
            stu.gettingdetails();
            stu.printthedetails();
            stu = new subject();
            stu.gettingdetails();
            stu.printthedetails();
        }
    }
}
```

ClassLibrary1.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace ClassLibrary1
{
    public class student
    {
        public string name;
        public int clas;
        public char sec;
```

```

public virtual void gettingdetails()
{
    Console.WriteLine("****Enter the student details****");
    Console.WriteLine("Enter the student name");
    name = Console.ReadLine();
    Console.WriteLine("Enter the student class ");
    clas = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter the student section");
    sec = Convert.ToChar(Console.ReadLine());
}
public virtual void printthedetails()
{
    Console.WriteLine("****Getting and printing the student details****");
    Console.WriteLine(name);
    Console.WriteLine(clas);
    Console.WriteLine(sec);
}
}
public class teacher : student
{
    public string subject;
    public override void gettingdetails()
    {
        Console.WriteLine("****enter the belong teacher details of the student****");
        Console.WriteLine("Enter the class teacher name");
        name = Console.ReadLine();
        Console.WriteLine("Enter the class as integer ");
        clas = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the section as character");
        sec = Convert.ToChar(Console.ReadLine());
        Console.WriteLine("Enter the subject name:");
        subject = Console.ReadLine();
    }
    public override void printthedetails()
    {
        Console.WriteLine("****printing the teacher details****");
        Console.WriteLine(name);
        Console.WriteLine(clas);
        Console.WriteLine(sec);
        Console.WriteLine(subject);
    }
}
public class subject : student
{
    public string subcode;
    public override void gettingdetails()
    {
        Console.WriteLine("Enter the subject details");
        Console.WriteLine("Enter the subject name in string");
    }
}

```

```
name = Console.ReadLine();
Console.WriteLine("Enter the subject code as string ");
subcode = Console.ReadLine();

}
public override void printthedetails()
{
    Console.WriteLine("print the student details");
    Console.WriteLine(name);
    Console.WriteLine(subcode);
    Console.ReadLine();
}
}
}
```

GIT Link: <https://github.com/sundar2568223/studentProject-oops.git>