**SOURCE CODE**

School data – OOPS:

Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace SchoolData\_OOPS

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("--------STUDENTS---------");

//student

Console.WriteLine("Enter the no of students :");

int n = int.Parse(Console.ReadLine());

Student[] stud = new Student[n];

for (int i = 0; i < n; i++)

{

Console.WriteLine("Enter student name");

string name = Console.ReadLine();

Console.WriteLine("Enter class");

int cls = int.Parse(Console.ReadLine());

Console.WriteLine("Enter section");

char section = char.Parse(Console.ReadLine());

stud[i] = new Student(name, cls, section);

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

}

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

//teachers

Console.WriteLine("--------TEACHERS---------");

Console.WriteLine("Enter the no of teachers :");

int n1 = int.Parse(Console.ReadLine());

Teacher[] teach = new Teacher[n1];

for (int i = 0; i < n1; i++)

{

Console.WriteLine("Enter teacher name");

string name = Console.ReadLine();

Console.WriteLine("Enter subject name");

string subject = Console.ReadLine();

teach[i] = new Teacher(name, subject);

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

}

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

//subject

Console.WriteLine("--------SUBJECT---------");

Console.WriteLine("Enter the no of subject :");

int n2 = int.Parse(Console.ReadLine());

Subject[] sub = new Subject[n2];

for (int i = 0; i < n2; i++)

{

Console.WriteLine("Enter subject name");

string name = Console.ReadLine();

Console.WriteLine("Enter subjectcode");

string code = Console.ReadLine();

sub[i] = new Subject(name, code);

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

}

Console.ForegroundColor = ConsoleColor.Green;

Console.WriteLine("----------PRINTING DETAILS OF STUDENTS------------------------");

foreach (var item in stud)

{

Console.WriteLine($"Name : {item.Name}");

Console.WriteLine($"Class : {item.Class}");

Console.WriteLine($"Section : {item.Section}");

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

}

Console.WriteLine("----------PRINTING DETAILS OF TEACHERS------------------------");

foreach (var item in teach)

{

Console.WriteLine($"Name : {item.Name}");

Console.WriteLine($"Subject : {item.Subject}");

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

}

Console.WriteLine("----------PRINTING DETAILS OF SUBJECTS------------------------");

foreach (var item in sub)

{

Console.WriteLine($"Name : {item.Name}");

Console.WriteLine($"Subject Code : {item.SubCode}");

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

}

}

}

}

Student.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace SchoolData\_OOPS

{

internal class Student

{

private string \_name;

public string Name

{

get { return \_name; }

set { \_name = value; }

}

private int \_class;

public int Class

{

get { return \_class; }

set { \_class = value; }

}

private char \_section;

public char Section

{

get { return \_section; }

set { \_section = value; }

}

public Student(string n, int c, char s)

{

Name = n;

Class = c;

Section = s;

}

}

}

Teacher.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace SchoolData\_OOPS

{

internal class Teacher

{

private string \_name;

public string Name

{

get { return \_name; }

set { \_name = value; }

}

private string \_subject;

public string Subject

{

get { return \_subject; }

set { \_subject = value; }

}

public Teacher(string name, string subject)

{

Name = name;

Subject = subject;

}

}

}

Subject.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace SchoolData\_OOPS

{

internal class Subject

{

private string \_subname;

public string Name

{

get { return \_subname; }

set { \_subname = value; }

}

private string \_subCode;

public string SubCode

{

get { return \_subCode; }

set { \_subCode = value; }

}

public Subject(string n, string c)

{

Name = n;

SubCode = c;

}

}

}