

Day 6 :Daily Tasks

Domain : C#

Program.cs

```
using Basic_Programs;

StudentMarks studentMarks = new StudentMarks(100, "Yogesh","Erode",100,90,85);

Console.WriteLine(studentMarks.Rno);
Console.WriteLine(studentMarks.Name);
Console.WriteLine(studentMarks.Address);
Console.WriteLine("Total : " + studentMarks.CalculateTotal());
Console.WriteLine("Average: " + studentMarks.CalculateAverage());
```

(StudentDetails.cs)

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

namespace Basic_Programs
{
    internal class StudentDetails
    {
        private int rno;
        private string? name, address;
        public StudentDetails(int rno = 0, string? name = null, string? address = null)
        {
            this.rno = rno;
            this.name = name;
            this.address = address;
        }

        public int Rno { get => rno; set => rno = value; }
        public string? Name { get => name; set => name = value; }
        public string? Address { get => address; set => address = value; }
    }
}
```

(Studentmarks.cs)

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

namespace Basic_Programs
{
    internal class StudentMarks : StudentDetails
    {
        private int m1, m2, m3;

        public StudentMarks(int rno, string name, string address, int m1, int m2, int
m3):base(rno,name,address)
        {
            this.m1 = m1;
            this.m2 = m2;
            this.m3 = m3;
        }

        public int M1 { get => m1; set => m1 = value; }
        public int M2 { get => m2; set => m2 = value; }
        public int M3 { get => m3; set => m3 = value; }

        public int CalculateTotal()
        {
            return M1 + M2 + M3;
        }
        public double CalculateAverage()
        {
            return (M1+M2 + M3)/3;
        }
    }
}
```

```
100
Yogesh
Erode
Total : 275
Average: 91

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To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

StudentGrade.cs

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

namespace Basic_Programs
{
    internal class StudentGrade : StudentMarks
    {
        public StudentGrade(int rno, string name, string address, int m1, int m2, int m3) : base(rno, name, address, m1, m2, m3)
        {

        }

        public char CalcualteGrade()
        {
            double average = CalculateAverage();
            if (average >= 90)
                return 'A';
            else if (average >= 80 && average < 90)
                return 'B';
            else
                return 'C';
        }
    }
}
```

```
100
Yogesh
Erode
Total : 275
Average: 91
Grade : A

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with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .|
```

StaffDetails.cs

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

namespace Basic_Programs
{
    internal class StaffDetails
    {
        int eno;
        private string? name, address;

        public StaffDetails(int eno, string? name, string? address)
        {
            this.eno = eno;
            this.name = name;
            this.address = address;
        }

        public int Eno { get => eno; set => eno = value; }
        public string? Name { get => name; set => name = value; }
        public string? Address { get => address; set => address = value; }
    }
}
```

TeachingStaff.cs

```

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

namespace Basic_Programs
{
    internal class TeachingStaff:StaffDetails
    {
        private string? dept;
        private double basic_salary;
        private readonly int _da, _hra, _cca, _pf;

        public TeachingStaff(int eno, string? name, string? address, string? dept, double
basic_salary, int da, int hra, int cca, int pf)
            :base(en,name,address)
        {
            this.dept = dept;
            this.basic_salary = basic_salary;
            _da = da;
            _hra = hra;
            _cca = cca;
            _pf = pf;
        }

        public string? Dept { get => dept; set => dept = value; }
        public double Basic_salary { get => basic_salary; set => basic_salary = value; }

        public int Da => _da;

        public int Hra => _hra;

        public int Cca => _cca;

        public int Pf => _pf;

        public float CalculateSalary()
        {
            float allowance = (float)
                (Basic_salary * ((float)Da / 100)+
                (Basic_salary * ((float)Hra / 100))
                - (Basic_salary * ((float)Cca / 100))

```

```

        - (Basic_salary*((float)Pf /100)));

        float ded=(float)(Basic_salary * ((float)Pf /100));
        float netsal = (float)(Basic_salary * ((double)Da / 100));
        return netsal;
    }
}
}

```

NonTeachingStaff.cs

```

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

namespace Basic_Programs
{
    internal class NonTeachingStaff:StaffDetails
    {
        private double basic_salary;
        private readonly int _da, _hra, _cca, _pf;

        public NonTeachingStaff(int eno, string? name, string? address, double basic_salary, int
da, int hra, int cca, int pf) : base(en0, name, address)
        {
            this.basic_salary = basic_salary;
            _da = da;
            _hra = hra;
            _cca = cca;
            _pf = pf;
        }

        public double Basic_salary { get => basic_salary; set => basic_salary = value; }

        public int Da => _da;

        public int Hra => _hra;

        public int Cca => _cca;
    }
}

```

```

public int Pf => _pf;

public float CalculateSalary()
{
    float allowance = (float)
        (Basic_salary * ((float)Da / 100) +
        (Basic_salary * ((float)Hra / 100))
        - (Basic_salary * ((float)Cca / 100))
        - (Basic_salary * ((float)Pf / 100)));

    float ded = (float)(Basic_salary * ((float)Pf / 100));
    float netsal = (float)(Basic_salary +(allowance -ded));
    return netsal;
}
}
}

```

```

Kalpana
ECE
25000
10000
Dharsana
10000
12000

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Press any key to close this window . . .|

```