

.NET Assignment -1

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Q1. Create a Class Employee with the following specifications

Properties

string Name -> no blank names should be allowed

int EmpNo -> must be greater than 0 decimal

Basic -> must be between some range short

DeptNo -> must be > 0

Methods

decimal GetNetSalary() -> returns calculated net salary (Use any formula to get net salary based on Basic salary)

Create constructors to accept initial values for Employee obj eg

Employee o1 = new Employee(1,"Amol",123465, 10);

Employee o2 = new Employee(1,"Amol",123465);

Employee o3 = new Employee(1,"Amol");

Employee o4 = new Employee(1);

Employee o5 = new Employee();

```

namespace Assignment1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            // calling static property
            Employee.Name = "Prajwal";
            Console.WriteLine(Employee.Name);

            Employee e1 = new Employee();

            //calling non-static properties
            e1.EmpNo = 100;
            Console.WriteLine(e1.EmpNo);

            e1.Basic = 7500;
            Console.WriteLine(e1.Basic);

            e1.DeptNo = 10;
            Console.WriteLine(e1.DeptNo);

            //Calling Method
            Console.WriteLine(e1.GetNetSalary());

            //Calling Constructor
            Employee o1 = new Employee(1, "Amol", 123465, 10);
            Employee o2 = new Employee(1, "Amol", 123465);
            Employee o3 = new Employee(1, "Amol");
            Employee o4 = new Employee(1);
            Employee o5 = new Employee();
            o1.display();
            o2.display();
            o3.display();
            o4.display();
            o5.display();
        }
    }

    public class Employee
    {
        //fields
        private static string name;
        private int empNo;
        private decimal basic;
        private short deptno;
        private int id;
        private string empname;
        private int mob;
        private int no;
        private decimal netsalary;

        //Properties
        public static string Name
        {
            set
            {
                if (string.IsNullOrEmpty(value))
                    Console.WriteLine("Empty String Not allowed");
                else

```

```

        name = value;
    }

    get
    {
        return name;
    }
}

//Properties
public int EmpNo
{
    set
    {
        if (value > 0)
            empNo = value;
        else
            Console.WriteLine("Employee no must be greater than 0");
    }

    get { return empNo; }
}

//Properties
public decimal Basic
{
    set
    {
        if ((value > 5000) && (value < 10000))
            basic = value;
        else
            Console.WriteLine("Value not in the given range");
    }

    get { return basic; }
}

//Properties
public short DeptNo
{
    set
    {
        if (value > 0)
            deptno = value;
        else
            Console.WriteLine("Department no must be > 0");
    }

    get { return deptno; }
}

//Method
public decimal GetNetSalary()
{
    netsalary = basic * 12 * (decimal)0.5;
    return netsalary;
}

//Create constructors to accept initial values for Employee obj
public Employee(int id = 0, string empname = "", int mob = 0, int no =
0)
{
    this.id = id;

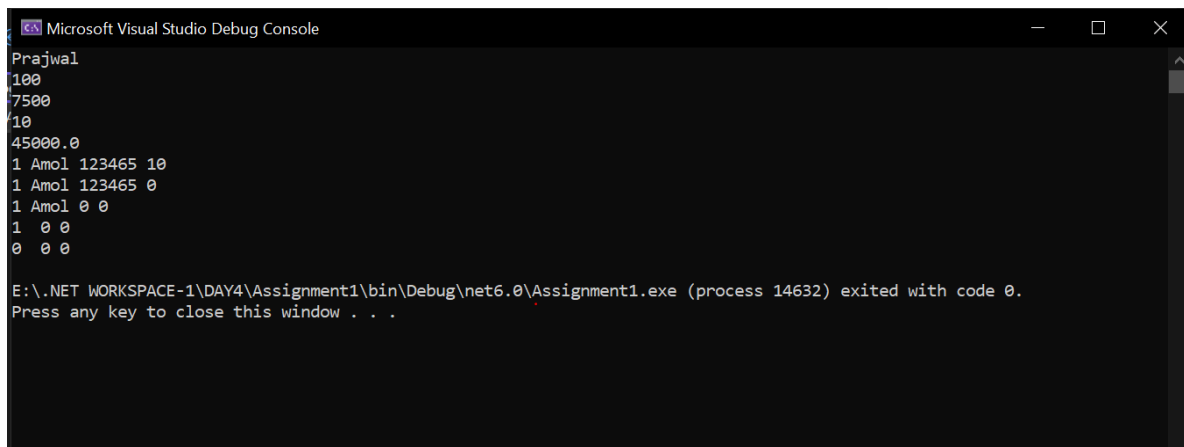
```

```

        this.empname = empname;
        this.mob = mob;
        this.no = no;
    }

    public void display()
    {
        Console.WriteLine(id + " " + empname + " " + mob + " " + no);
    }
}
}

```



The screenshot shows the Microsoft Visual Studio Debug Console window. The title bar reads "Microsoft Visual Studio Debug Console". The output text is as follows:

```

Prajwal
100
7500
10
45000.0
1 Amol 123465 10
1 Amol 123465 0
1 Amol 0 0
1 0 0
0 0 0

E:\.NET WORKSPACE-1\DAY4\Assignment1\bin\Debug\net6.0\Assignment1.exe (process 14632) exited with code 0.
Press any key to close this window . . .

```