

Date : 24-08-24 - 25-08-24

1.

Code :

```
namespace EmployeePayroll
{

    abstract class Employee
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public float BasicSalary { get; set; }
        public float Bonus { get; set; }
        public float NetSalary { get; set; }

        public abstract float CalculateSalary();

        public abstract float CalculateBonus();

    }

    class PermanentEmployee : Employee
    {

        public int Pf { get; set; }

        public override float CalculateSalary() {
            NetSalary = BasicSalary - Pf;
            return NetSalary;
        }

        public override float CalculateBonus()
        {
            if (Pf < 1000)
            {
                Bonus = 0.10f * BasicSalary;
            }
        }
    }
}
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    }
    else if (Pf >= 1000 && Pf < 1500)
    {
        Bonus = 0.115f * BasicSalary;
    }
    else if (Pf >= 1500 && Pf < 1800)
    {
        Bonus = 0.12f * BasicSalary;
    }
    else if (Pf >= 1800)
    {
        Bonus = 0.15f * BasicSalary;
    }
    return Bonus;
}

}

class TemporaryEmployee : Employee
{

    public int DailyWages { get; set; }
    public int NoOfDays { get; set; }

    /*If pf<1000 set bonus as 10% of basic pay
    If pf>=1000 and pf <1500 set bonus as 11.5% basic pay
    If pf>=1500 and pf <1800 set bonus as 12% basic pay
    If pf>=1800 set bonus as 15% basic pay
    NetSalary = basic_salary - pf*/

    public override float CalculateSalary()
    {
        NetSalary = DailyWages * NoOfDays;
        return NetSalary;
    }
}

```

```

public override float CalculateBonus()
{
    if (DailyWages < 1000)
    {
        Bonus = 0.15f * NetSalary;
    }
    else if (DailyWages >= 1000 && DailyWages < 1500)
    {
        Bonus = 0.12f * NetSalary;
    }
    else if (DailyWages >= 1500 && DailyWages < 1750)
    {
        Bonus = 0.11f * NetSalary;
    }
    else if (DailyWages >= 1750)
    {
        Bonus = 0.08f * NetSalary;
    }
    return Bonus;
}

}

internal class Program
{
    private static void Main(string[] args)
    {
        Console.WriteLine("Enter the Details");
        Console.WriteLine("Enter the type of Employee : ");
        string EmpType = Console.ReadLine();
        if (EmpType.Equals("Permanent")){
            PermanentEmployee pe = new PermanentEmployee();

            Console.WriteLine("Enter Employee Id:");
            pe.Id = int.Parse(Console.ReadLine());

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Console.WriteLine("Enter Employee Name:");
pe.Name = Console.ReadLine();

Console.WriteLine("Enter Basic Salary:");
pe.BasicSalary = float.Parse(Console.ReadLine());

Console.WriteLine("Enter PF:");
pe.Pf = int.Parse(Console.ReadLine());

pe.CalculateSalary();
pe.CalculateBonus();

Console.WriteLine($"Employee Id: {pe.Id}");
Console.WriteLine($"Employee Name: {pe.Name}");
Console.WriteLine($"Basic Salary: {pe.BasicSalary}");
Console.WriteLine($"PF: {pe.Pf}");
Console.WriteLine($"Bonus: {pe.Bonus}");
Console.WriteLine($"Net Salary: {pe.NetSalary}");
}
else if (EmpType.Equals("Temporary"))
{
    TemporaryEmployee te = new TemporaryEmployee();

    Console.WriteLine("Enter Employee Id:");
    te.Id = int.Parse(Console.ReadLine());

    Console.WriteLine("Enter Employee Name:");
    te.Name = Console.ReadLine();

    Console.WriteLine("Enter Daily Wages:");
    te.DailyWages = int.Parse(Console.ReadLine());

    Console.WriteLine("Enter No. of days worked:");
    te.NoOfDays = int.Parse(Console.ReadLine());

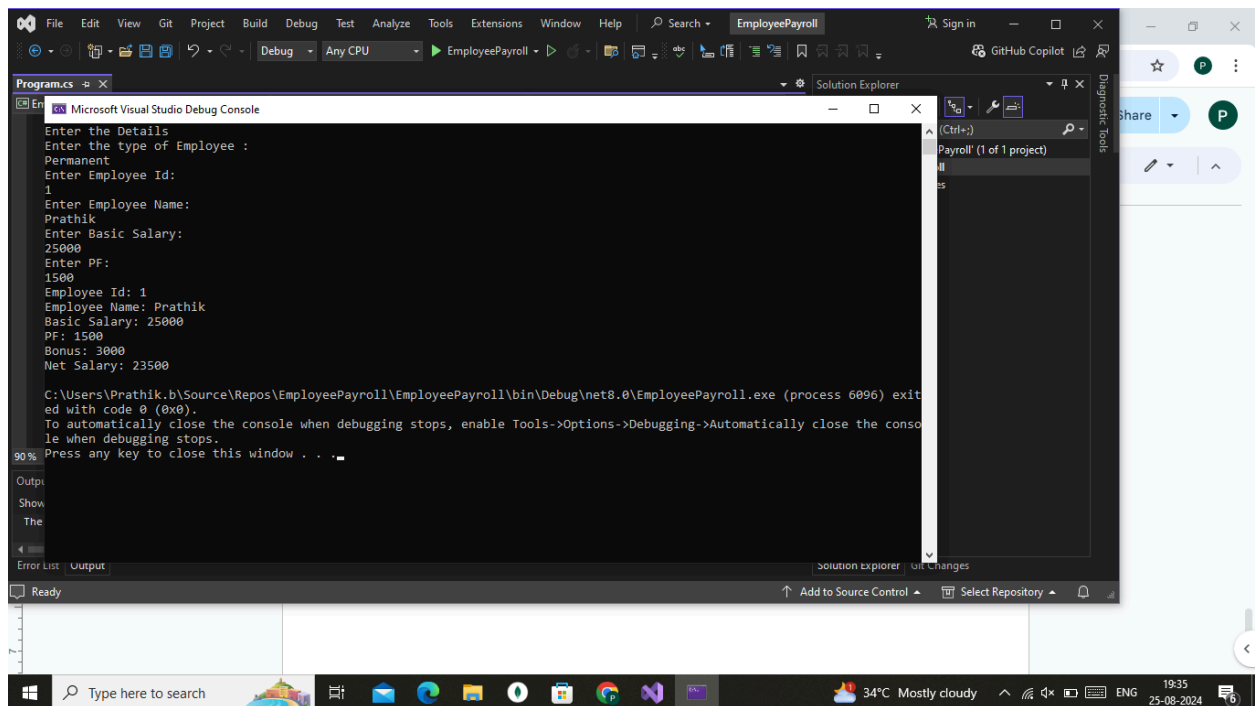
```

```
te.CalculateSalary();  
te.CalculateBonus();
```

```
Console.WriteLine($"Employee Id: {te.Id}");  
Console.WriteLine($"Employee Name: {te.Name}");  
Console.WriteLine($"Daily Wages: {te.DailyWages}");  
Console.WriteLine($"No. of Days Worked: {te.NoOfDays}");  
Console.WriteLine($"Bonus: {te.Bonus}");  
Console.WriteLine($"Net Salary: {te.NetSalary}");  
}  
}  
}
```

```
}
```

Output :



```
Microsoft Visual Studio Debug Console  
Enter the Details  
Enter the type of Employee :  
Permanent  
Enter Employee Id:  
1  
Enter Employee Name:  
Prathik  
Enter Basic Salary:  
25000  
Enter PF:  
1500  
Employee Id: 1  
Employee Name: Prathik  
Basic Salary: 25000  
PF: 1500  
Bonus: 3000  
Net Salary: 23500  
C:\Users\Prathik.b\Source\Repos\EmployeePayroll\EmployeePayroll\bin\Debug\net8.0\EmployeePayroll.exe (process 6096) exit  
ed with code 0 (0x0).  
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 . . .
```

