Assignment 4

Assignment 4 Question 1

class Program

{

static void Main(string[] args)

{

Employee e1 = new Employee("Anjali", "Hingu", 60000);

Employee e2 = new Employee("Isha", "Hingu", 70000);

Console.WriteLine("Before Increament...");

Console.WriteLine(e1.ToString());

Console.WriteLine(e2.ToString());

Console.WriteLine("After Increament...");

e1.giveRaise(10.0);

e2.giveRaise(10.0);

Console.WriteLine(e1.ToString());

Console.WriteLine(e2.ToString());

Console.WriteLine("Permanent employee details:");

PermanentEmployee pe1 = new PermanentEmployee("Anjali","Hingu",60000,8400,1680,2016,"08-01-2024","10-01-2025");

PermanentEmployee pe2 = new PermanentEmployee("Isha","Hingu",70000,9800,1960,2352,"01-01-2024", "01-01-2025");

Console.WriteLine("Before Increament...");

Console.WriteLine(pe1);

Console.WriteLine(pe2);

pe1.giveRaise(10.0);

pe2.giveRaise(10.0);

Console.WriteLine("After Increament...");

Console.WriteLine(pe1.ToString());

Console.WriteLine(pe2.ToString());

}

}

public class Employee

{

private String \_firstName;

private String \_lastName;

private double \_monSalary;

public Employee(String first, String last, double sal)

{

\_firstName = first;

\_lastName = last;

\_monSalary = sal;

}

public String First

{

get => \_firstName;

set => \_firstName = value;

}

public String Last

{

get => \_lastName;

set => \_lastName = value;

}

public double MonSalary

{

get => \_monSalary;

set

{

if (value < 0.0)

{

\_monSalary = 0.0;

}

else

{

\_monSalary = value;

}

}

// 2nd way

// set => \_monSalary = value < 0.0 ? 0.0 : value;

}

public virtual void giveRaise(double inc)

{

\_monSalary = \_monSalary + (\_monSalary \* inc / 100);

}

public override string ToString()

{

return "Employee Details : " + \_firstName + " " + \_lastName + " Yearly Salary : " +( \_monSalary)\*12;

}

}

public class PermanentEmployee : Employee

{

private double \_hra;

private double \_da;

private double \_pf;

private String \_joiningDate;

private String \_retirementDate;

public PermanentEmployee(String first, String last, double sal, double

hra, double da, double pf, String joiningDate, String retirementDate) :

base(first, last, sal)

{

this.\_hra = hra;

this.\_da = da;

this.\_pf = pf;

this.\_joiningDate = joiningDate;

this.\_retirementDate = retirementDate;

this.MonSalary = this.MonSalary + \_hra + \_da;

}

public double Hra

{

get => \_hra;

}

public double Da

{

get => \_da;

}

public double Pf

{

get => \_pf;

}

public String JoiningDate

{

get => \_joiningDate;

set => \_joiningDate = value;

}

public String RetirementDate

{

get => \_retirementDate;

set => \_retirementDate = value;

}

public override void giveRaise(double inc)

{

this.MonSalary = this.MonSalary + ((this.MonSalary \* inc) / 100) + \_da

+ \_hra;

}

public override string ToString()

{

return "Permanent Employee Details : " + this.First + " " + this.Last

+ " Joining Date : " + \_joiningDate + " Retirement Date : " +

\_retirementDate + " Yearly Salary : " + (this.MonSalary) \* 12;

}

}

Output:

