2023/07/11

1)Create a class called “Employee” which has 3 private variables (empID , empName , empDesignation)

And create getters and setters for each fied.please note that this has no main method sice this is just an added class to the console application . Inside the main class take user inputs for employee id,employee name. employee designation and pass values to added class and set values.

From getters return relevant values and print the following massage from main method.

“Hello-emloyee name-your employee id is-empid-and you are a-empdesignation.

A screenshot of a computer

Description automatically generated

**Main program**

**using ConsoleApp2;**

**using System;**

**class Program**

**{**

**static void Main()**

**{**

**Console.WriteLine("Enter the employee ID:");**

**int empID = Convert.ToInt32(Console.ReadLine());**

**Console.WriteLine("Enter the employee name:");**

**string empName = Console.ReadLine();**

**Console.WriteLine("Enter the employee designation:");**

**string empDesignation = Console.ReadLine();**

**Employee employee = new Employee();**

**employee.SetEmpID(empID);**

**employee.SetEmpName(empName);**

**employee.SetEmpDesignation(empDesignation);**

**string name = employee.GetEmpName();**

**int id = employee.GetEmpID();**

**string designation = employee.GetEmpDesignation();**

**Console.WriteLine("Hello, " + name + "! Your employee ID is " + id + " and you are a " + designation + ".");**

**Console.ReadLine();**

**}**

**}**

**Employee class**

**using System.Text;**

**using System.Threading.Tasks;**

**namespace ConsoleApp2**

**{**

**internal class Employee**

**{**

**private int empID;**

**private string empName;**

**private string empDesignation;**

**public void SetEmpID(int id)**

**{**

**empID = id;**

**}**

**public int GetEmpID()**

**{**

**return empID;**

**}**

**public void SetEmpName(string name)**

**{**

**empName = name;**

**}**

**public string GetEmpName()**

**{**

**return empName;**

**}**

**public void SetEmpDesignation(string designation)**

**{**

**empDesignation = designation;**

**}**

**public string GetEmpDesignation()**

**{**

**return empDesignation;**

**}**

**}**

**}**

2)Create a console application which contain an encapsulation class for four basic arithmetic operations.

Inside the encapsulation class you should have two private variables and getters and setters for basic arithmetic operations. Then return answers for summation,subtraction,multiplication and division and print them on main method.

**using System;**

**class Program**

**{**

**static void Main()**

**{**

**ArithmeticOperations operations = new ArithmeticOperations();**

**operations.FirstOperand = 10;**

**operations.SecondOperand = 5;**

**double sum = operations.Addition();**

**double difference = operations.Subtraction();**

**double product = operations.Multiplication();**

**double quotient = operations.Division();**

**Console.WriteLine("Sum: " + sum);**

**Console.WriteLine("Difference: " + difference);**

**Console.WriteLine("Product: " + product);**

**Console.WriteLine("Quotient: " + quotient);**

**Console.ReadLine();**

**}**

**}**

**class ArithmeticOperations**

**{**

**private double firstOperand;**

**private double secondOperand;**

**public double FirstOperand**

**{**

**get { return firstOperand; }**

**set { firstOperand = value; }**

**}**

**public double SecondOperand**

**{**

**get { return secondOperand; }**

**set { secondOperand = value; }**

**}**

**public double Addition()**

**{**

**return firstOperand + secondOperand;**

**}**

**public double Subtraction()**

**{**

**return firstOperand - secondOperand;**

**}**

**public double Multiplication()**

**{**

**return firstOperand \* secondOperand;**

**}**

**public double Division()**

**{**

**if (secondOperand != 0)**

**return firstOperand / secondOperand;**

**else**

**{**

**Console.WriteLine("Error: Division by zero!");**

**return 0;**

**}**

**}**

**}**