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**Lab Sheet 05.**

**Question 01.**

internal class CalculateValues

{

public void Addition(int num1, int num2)

{

Console.Write("Addition is : " + (num1 + num2));

Console.ReadKey();

}

public void Subtraction(int num1, int num2)

{

Console.Write("Subtraction is : " + (num1 - num2));

Console.ReadKey();

}

public void Multiplication(int num1, int num2)

{

Console.Write("Multiplication is : " + (num1 \* num2));

Console.ReadKey();

}

public void Division(int num1, int num2)

{

Console.Write("Division is : " + (num1 / num2));

Console.ReadKey();

}

}

**Program.cs**

internal class Program

{

static void Main(string[] args)

{

CalculateValues objCAl = new CalculateValues();

int choice;

Console.WriteLine("Enter 1 for Addition");

Console.WriteLine("Enter 2 for Subtraction");

Console.WriteLine("Enter 3 For Multiplication");

Console.WriteLine("Enter 4 for Division");

Console.WriteLine("Enter Your Choice: ");

choice = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter Number 1: ");

int num1 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter Number 2: ");

int num2 = Convert.ToInt32(Console.ReadLine());

switch (choice)

{

case 1:

objCAl.Addition(num1, num2);

break;

case 2:

objCAl.Subtraction(num1, num2);

break;

case 3:

objCAl.Multiplication(num1, num2);

break;

case 4:

objCAl.Division(num1, num2);

break;

default:

Console.Write("Enter a Valid Operation Option");

break;

}

}

}

**Question 02.**

public class SayHello

{

public void sayHello()

{

Console.WriteLine("Hello, World!");

}

}

**Program.cs**

internal class Program

{

static void Main(string[] args)

{

SayHello sayHelloObject = new SayHello();

sayHelloObject.sayHello();

}

**Question 03.**

internal class FindMinMaxAverageReverse

{

public int[] CreateArray()

{

int[] array = new int[10];

for (int i = 0; i < array.Length; i++)

{

Console.Write("Enter value for array index {0}: ", i);

int value = int.Parse(Console.ReadLine());

array[i] = value;

}

return array;

}

public void FindMinMaxAverage(int[] array)

{

int minValue = array[0];

int maxValue = array[0];

int sum = 0;

for (int i = 0; i < array.Length; i++)

{

if (array[i] < minValue)

{

minValue = array[i];

}

if (array[i] > maxValue)

{

maxValue = array[i];

}

sum += array[i];

}

float average = sum / array.Length;

Console.Write("Minimum value is: {0}", minValue);

Console.Write("Maximum value is: {0}", maxValue);

Console.Write("Average value is: {0}", average);

}

public void ReverseArray(int[] array)

{

int[] reversedArray = new int[array.Length];

for (int i = array.Length - 1; i >= 0; i--)

{

reversedArray[array.Length - 1 - i] = array[i];

}

Console.Write("Reversed array is: ");

for (int i = 0; i < reversedArray.Length; i++)

{

Console.Write("{0} ", reversedArray[i]);

}

Console.ReadKey();

}

}

**Program.cs**

internal class Program

{

static void Main(string[] args)

{

FindMinMaxAverageReverse arrayClass = new FindMinMaxAverageReverse();

int[] array = arrayClass.CreateArray();

arrayClass.FindMinMaxAverage(array);

arrayClass.ReverseArray(array);

}

}