(Q3) Answer;

using System;

class CalculateValues

{

public int Add(int num1, int num2)

{

return num1 + num2;

}

public int Subtract(int num1, int num2)

{

return num1 - num2;

}

public int Multiply(int num1, int num2)

{

return num1 \* num2;

}

public int Divide(int num1, int num2)

{

if (num2 == 0)

{

Console.WriteLine("Error: Cannot divide by zero.");

return 0;

}

return num1 / num2;

}

}

class Program

{

static void Main()

{

CalculateValues calculator = new CalculateValues();

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 (1/2/3/4): ");

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

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

int num1 = int.Parse(Console.ReadLine());

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

int num2 = int.Parse(Console.ReadLine());

int ans = 0;

switch (choice)

{

case 1:

ans = calculator.Add(num1, num2);

break;

case 2:

ans = calculator.Subtract(num1, num2);

break;

case 3:

ans = calculator.Multiply(num1, num2);

break;

case 4:

ans = calculator.Divide(num1, num2);

break;

default:

Console.WriteLine("Invalid choice.");

return;

}

Console.WriteLine("Your Answer is : " + ans);

}

}

**LAB 05**

(Q4)Answer;

using System;

public class HelloWorld

{

private void SayHello()

{

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

}

}

(Q5)Answer;

using System;

class ArrayOperations

{

public int FndMin(int[] arr)

{

int min = arr[0];

for (int i = 1; i < arr.Length; i++)

{

if (arr[i] < min)

min = arr[i];

}

return min;

}

public int FndMax(int[] arr)

{

int max = arr[0];

for (int i = 1; i < arr.Length; i++)

{

if (arr[i] > max)

max = arr[i];

}

return max;

}

public double FndAvg(int[] arr)

{

int sum = 0;

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

{

sum += arr[i];

}

return (double)sum / arr.Length;

}

public void RvsArr(int[] arr)

{

int left = 0;

int right = arr.Length - 1;

while (left < right)

{

int temp = arr[left];

arr[left] = arr[right];

arr[right] = temp;

left++;

right--;

}

}

}

class Program

{

static void Main()

{

int[] array = new int[10];

Console.Write("Enter the numbers for array > \n");

for (int i = 0; i < 10; i++)

{

Console.Write($"Enter value for index {i}: ");

array[i] = int.Parse(Console.ReadLine());

}

ArrayOperations arrayOperations = new ArrayOperations();

// min

int min = arrayOperations.FndMin(array);

Console.WriteLine($"Minimum value: {min}");

// max

int max = arrayOperations.FndMax(array);

Console.WriteLine($"Maximum value: {max}");

// avg

double avg = arrayOperations.FndAvg(array);

Console.WriteLine($"Average value: {avg}");

// Reverse

arrayOperations.RvsArr(array);

Console.WriteLine("Array in reverse order:");

DisplayArray(array);

}

static void DisplayArray(int[] arr)

{

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

{

Console.Write(arr[i] + " ");

}

Console.WriteLine();

}

}