1. using System;

class Program

{

static void Main()

{

// Prompt the user to input three numbers

Console.WriteLine("Enter the first number:");

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

Console.WriteLine("Enter the second number:");

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

Console.WriteLine("Enter the third number:");

int num3 = Convert.ToInt32(Console.ReadLine());

// Output the numbers in ascending order

if (num1 <= num2 && num1 <= num3)

{

Console.Write(num1 + " ");

if (num2 <= num3)

{

Console.Write(num2 + " ");

Console.Write(num3);

}

else

{

Console.Write(num3 + " ");

Console.Write(num2);

}

}

else if (num2 <= num1 && num2 <= num3)

{

Console.Write(num2 + " ");

if (num1 <= num3)

{

Console.Write(num1 + " ");

Console.Write(num3);

}

else

{

Console.Write(num3 + " ");

Console.Write(num1);

}

}

else

{

Console.Write(num3 + " ");

if (num1 <= num2)

{

Console.Write(num1 + " ");

Console.Write(num2);

}

else

{

Console.Write(num2 + " ");

Console.Write(num1);

}

}

}

}

1. <?php

function smallestIndex($arr, $size) {

$min\_index = 0;

$min\_value = $arr[0];

for ($i = 1; $i < $size; $i++) {

if ($arr[$i] < $min\_value) {

$min\_value = $arr[$i];

$min\_index = $i;

}

}

return $min\_index;

}

$arr = array(10, 20, 5, 3, 15);

$size = count($arr);

$min\_index = smallestIndex($arr, $size);

echo "The smallest index is: " . $min\_index . "\n";

using System;

class Program

{

static void Main()

{

// Prompt the user to input a string

Console.WriteLine("Enter a string:");

string input = Console.ReadLine();

// Convert the string to uppercase using a character array

char[] charArray = input.ToCharArray();

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

{

if (char.IsLower(charArray[i]))

{

charArray[i] = char.ToUpper(charArray[i]);

}

}

// Output the string in uppercase

string result = new string(charArray);

Console.WriteLine("Uppercase string: " + result);

}

}

using System;

class Program

{

static void Main()

{

// Allow the user to determine the size of the row and column for the matrices

Console.WriteLine("Enter the number of rows for the matrices:");

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

Console.WriteLine("Enter the number of columns for the matrices:");

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

// Initialize two matrices with user-defined size

int[,] matrix1 = new int[rows, columns];

int[,] matrix2 = new int[rows, columns];

int[,] resultMatrix = new int[rows, columns];

// Input values for the first matrix

Console.WriteLine("Enter values for the first matrix:");

InputMatrixValues(matrix1, rows, columns);

// Input values for the second matrix

Console.WriteLine("Enter values for the second matrix:");

InputMatrixValues(matrix2, rows, columns);

// Compute the addition of the two matrices

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

{

for (int j = 0; j < columns; j++)

{

resultMatrix[i, j] = matrix1[i, j] + matrix2[i, j];

}

}

// Display the result matrix

Console.WriteLine("Result Matrix after addition:");

DisplayMatrix(resultMatrix, rows, columns);

}

static void InputMatrixValues(int[,] matrix, int rows, int columns)

{

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

{

for (int j = 0; j < columns; j++)

{

Console.Write($"Enter value at position [{i},{j}]: ");

matrix[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void DisplayMatrix(int[,] matrix, int rows, int columns)

{

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

{

for (int j = 0; j < columns; j++)

{

Console.Write(matrix[i, j] + " ");

}

Console.WriteLine();

}

}

}

1. using System;

class Program

{

static void Main()

{

float[] alpha = new float[50];

// Initialize the array as specified

for (int i = 0; i < 25; i++)

{

alpha[i] = i \* i;

alpha[i + 25] = 3 \* i;

}

// Output the array with 10 elements per line

for (int i = 0; i < 50; i++)

{

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

if ((i + 1) % 10 == 0)

{

Console.WriteLine();

}

}

}

}

1. using System;

class Program

{

static void Main()

{

// Prompt the user to input a number

Console.WriteLine("Enter a number:");

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

// Output whether the number is positive, negative, or zero

if (number > 0)

{

Console.WriteLine(number + " is a positive number.");

}

else if (number < 0)

{

Console.WriteLine(number + " is a negative number.");

}

else

{

Console.WriteLine("The number is zero.");

}

}

}