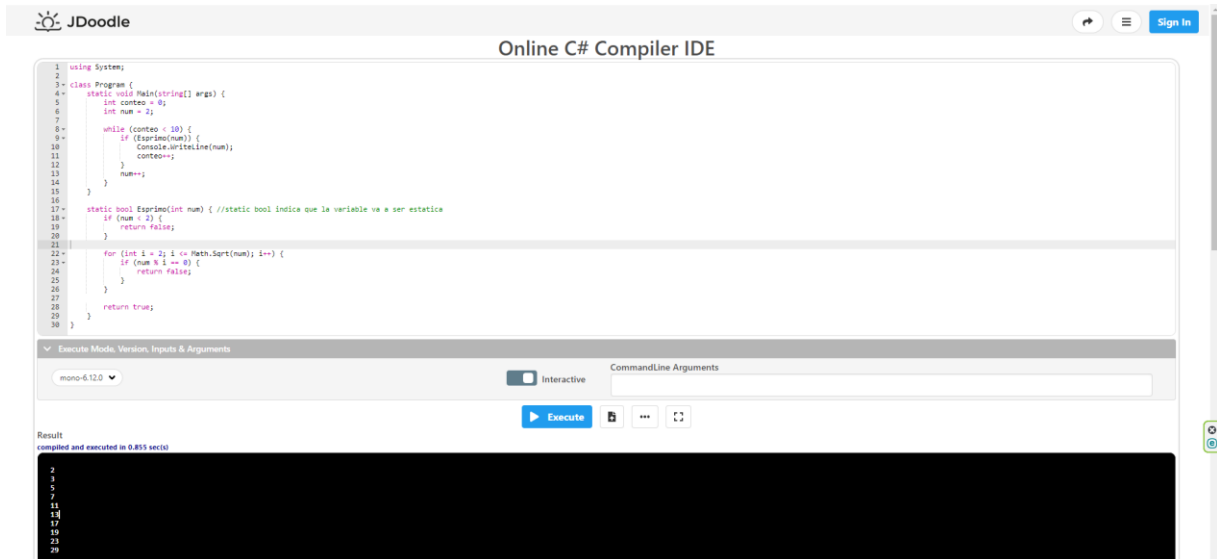


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Semana 7 ejercicio individual

Primeros 10 números primos



The screenshot shows the JDoodle Online C# Compiler IDE. The code defines a class Program with a Main method. It uses a while loop to find the first 10 prime numbers. A helper method EsPrimo is used to check if a number is prime. The output shows the first 10 prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29.

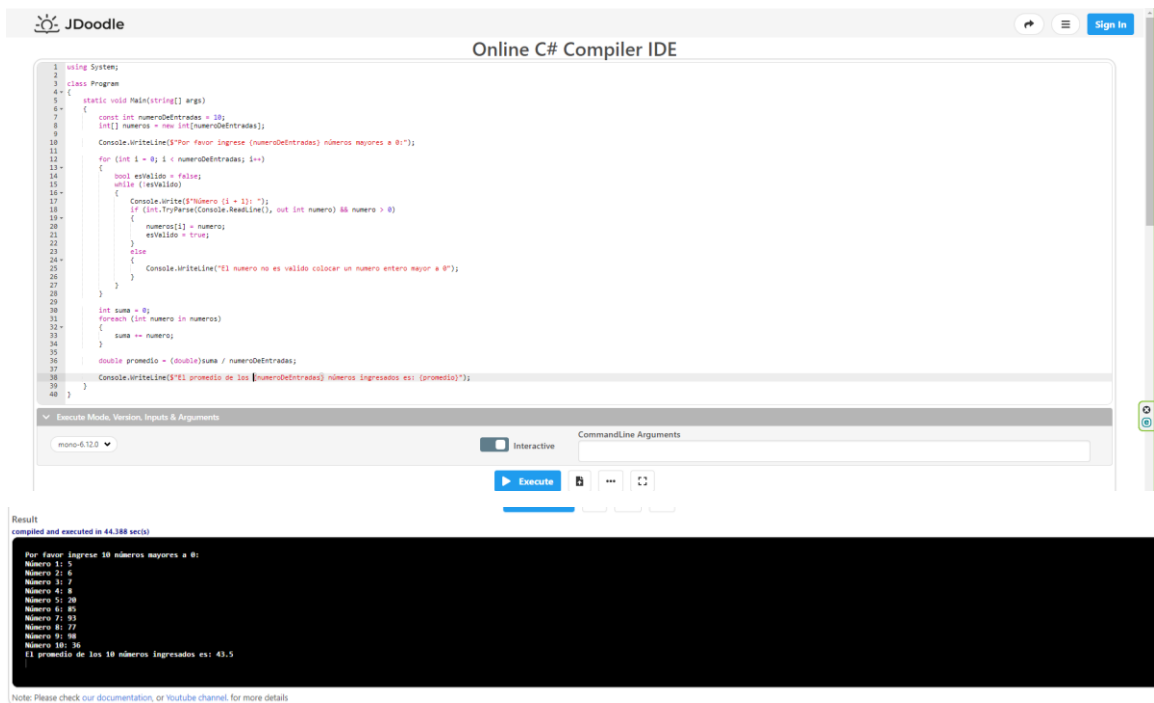
```
1 using System;
2
3 class Program {
4     static void Main(string[] args) {
5         int conteo = 0;
6         int num = 2;
7
8         while (conteo < 10) {
9             if (EsPrimo(num)) {
10                 Console.WriteLine(num);
11                 conteo++;
12             }
13             num++;
14         }
15     }
16
17     static bool EsPrimo(int num) { //static bool indica que la variable va a ser estatica
18         if (num < 2) {
19             return false;
20         }
21
22         for (int i = 2; i <= Math.Sqrt(num); i++) {
23             if (num % i == 0) {
24                 return false;
25             }
26         }
27         return true;
28     }
29 }
30 }
```

Execute Mode: Version, Inputs & Arguments  
mono-6.12.0  
Interactive  
Execute

Result  
compiled and executed in 0.853 secs

```
2
3
5
7
11
13
17
19
23
29
```

Pedir 10 números y calcular el promedio



The screenshot shows the JDoodle Online C# Compiler IDE. The code defines a class Program with a Main method. It prompts the user to enter 10 numbers, stores them in an array, and calculates the average. The output shows the 10 numbers entered and the calculated average: 43.5.

```
1 using System;
2
3 class Program {
4     static void Main(string[] args) {
5         const int numeroDeEntradas = 10;
6         int[] numeros = new int[numeroDeEntradas];
7         Console.WriteLine("Por favor ingrese (numeroDeEntradas) números mayores a 0");
8
9         for (int i = 0; i < numeroDeEntradas; i++) {
10             bool valido = false;
11             while (!valido) {
12                 Console.Write($"Número {i + 1}: ");
13                 if (int.TryParse(Console.ReadLine(), out int numero) && numero > 0) {
14                     numeros[i] = numero;
15                     valido = true;
16                 }
17                 else {
18                     Console.WriteLine("El número no es válido colocar un número entero mayor a 0");
19                 }
20             }
21         }
22
23         int suma = 0;
24         foreach (int numero in numeros) {
25             suma += numero;
26         }
27
28         double promedio = (double)suma / numeroDeEntradas;
29
30         Console.WriteLine($"El promedio de los {numeroDeEntradas} números ingresados es: {promedio}");
31     }
32 }
```

Execute Mode: Version, Inputs & Arguments  
mono-6.12.0  
Interactive  
Execute

Result  
compiled and executed in 43.388 secs

```
Por favor ingrese 10 números mayores a 0:
Número 1: 5
Número 2: 6
Número 3: 7
Número 4: 8
Número 5: 20
Número 6: 80
Número 7: 83
Número 8: 77
Número 9: 88
Número 10: 36
El promedio de los 10 números ingresados es: 43.5
```

Note: Please check our documentation, or Youtube channel, for more details