Detyra 1.

Write a program, which reads from the console a year and **checks if it is a leap year**.

Kodi:

Console.Write("Shkruaj vitin: ");

int viti = Int32.Parse(Console.ReadLine());

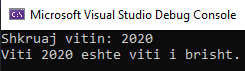
if (DateTime.IsLeapYear(viti))

{

Console.WriteLine("Viti {0} eshte viti i brisht.", viti);

}

else Console.WriteLine("Viti {0} nuk eshte vit i brisht.", viti);

Rezultati:

Detyra 2.

Write a program, which generates and prints on the console **10 random numbers** in the range [100, 200].

Kodi:

Random iliili = new Random();

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

{

Console.WriteLine(iliili.Next(100, 201));

}

Rezultati:

Detyra 3.

Write a program, which prints, on the console **which day of the week is today**.

Kodi: Console.WriteLine("Today is {0}", DateTime.Today.DayOfWeek);

Rezultati:

Detyra 6.

For the first sub-problem of the task use the **Heron’s Formula** 𝑆= √𝑝(𝑝−𝑎)(𝑝−𝑏)(𝑝−𝑐), where 𝑝=𝑎+𝑏+𝑐2. For the second sub-problem use the **formula**: 𝑆= 𝑎∗ℎ𝑎2. For the third sub-problem use the **formula**: 𝑆 = 𝑎 ∗ 𝑏 ∗ 𝑠𝑖𝑛(𝛾)2. For the sine use the **System.Math** class.

Kodi:

Console.WriteLine("- three sides");

Console.WriteLine("- side and the altitude to it");

Console.WriteLine("- two sides and the angle between them in degrees.");

Console.Write("Cilen formule doni ta zgjedhni: ");

int zgjidhja = Int32.Parse(Console.ReadLine());

switch (zgjidhja)

{

case 1:

Console.Write("a: ");

float a = Int32.Parse(Console.ReadLine());

Console.Write("b: ");

float b = Int32.Parse(Console.ReadLine());

Console.Write("c: ");

float c = Int32.Parse(Console.ReadLine());

float p = (a + b + c) / 2;

Console.WriteLine("S ={0}", Math.Sqrt(p \* (p - a) \* (p - b) \* (p - c)));

break;

case 2:

Console.Write("a: ");

float a1 = Int32.Parse(Console.ReadLine());

Console.Write("h: ");

float h = Int32.Parse(Console.ReadLine());

Console.WriteLine("S={0}", (a1 \* h) / 2);

break;

case 3:

Console.Write("a: ");

int a2 = Int32.Parse(Console.ReadLine());

Console.Write("b: ");

int b2 = Int32.Parse(Console.ReadLine());

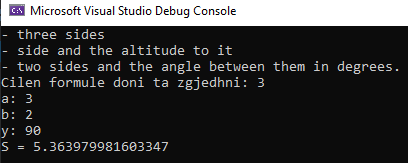
Console.Write("y: ");

int y = Int32.Parse(Console.ReadLine());

Console.WriteLine("S = {0}", a2 \* b2 \* Math.Sin(y));

break;

}

Rezultati:

Detyra 10.

You are given a **sequence of positive integer numbers** given as string of numbers separated by a space. Write a program, which **calculates their sum**. Example: "**43 68 9 23 318**"  **461**.

Kodi: int result = 0;

Console.Write("Enter numbers: ");

string inputNumbers = Console.ReadLine();

string[] splitNumbers = inputNumbers.Split(' ');

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

result += Convert.ToInt32(splitNumbers[i]);

Console.WriteLine("Result is: {0}", result);

Rezultati: 