Furkan Emre Saygın

Soru: Kullanıcıdan bir sayı alarak 1'den bu sayıya kadar olan tüm sayıların toplamını hesaplayan bir program yazın. Programda hem for hem de while döngüsü kullanarak iki farklı yöntemle sonucu hesaplayın ve ekrana yazdırın.

For Döngüsü =

```csharp
using System;
using System.Diagnostics.Contracts;

class Program{

    static void Main(){

        Console.Write("How long should it be collected? :");

        int number = Convert.ToInt32(Console.ReadLine());  // Veri girişi
        int toplam = 0;

        for(int i=1; i<number; i++){  // Sayıların kendisinden önceki 1 dahil bütün sayıları toplayan döngü
            toplam += i;
        }

        Console.WriteLine($"Totals {toplam}"); // Toplamı yazdıran kod
    }
}
```

```
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :6
Totals 15
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :3
Totals 3
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :2
Totals 1
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :-5
Totals 0
```

```
furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git add .

furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Donguler.sln
        modified:   Program.cs
        modified:   bin/Debug/net9.0/-Donguler.dll
        modified:   bin/Debug/net9.0/-Donguler.exe
        modified:   bin/Debug/net9.0/-Donguler.pdb
        modified:   obj/-Donguler.csproj.nuget.dgspec.json
        modified:   obj/Debug/net9.0/-Donguler.AssemblyInfo.cs
        modified:   obj/Debug/net9.0/-Donguler.AssemblyInfoInputs.cache
        modified:   obj/Debug/net9.0/-Donguler.GeneratedMSBuildEditorConfig.editorconfig
        modified:   obj/Debug/net9.0/-Donguler.assets.cache
        modified:   obj/Debug/net9.0/-Donguler.csproj.FileListAbsolute.txt
        modified:   obj/Debug/net9.0/-Donguler.dll
        modified:   obj/Debug/net9.0/-Donguler.genruntimeconfig.cache
        modified:   obj/Debug/net9.0/-Donguler.pdb
        modified:   obj/Debug/net9.0/-Donguler.sourcelink.json
        modified:   obj/Debug/net9.0/apphost.exe
        modified:   obj/Debug/net9.0/ref/-Donguler.dll
        modified:   obj/Debug/net9.0/refint/-Donguler.dll
        modified:   obj/project.assets.json
        modified:   obj/project.nuget.cache

furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git commit -m "For döngüsü tamamlandı"
[main d94a0ee] For döngüsü tamamlandı
 20 files changed, 74 insertions(+), 16 deletions(-)
 create mode 100644 Donguler.sln

furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$
```

While Döngüsü =

```csharp
using System;
using System.Diagnostics.Contracts;

0 references
class Program{

    0 references
    static void Main(){

        Console.Write("How long should it be collected? :");

        int number = Convert.ToInt32(Console.ReadLine());  // Veri girişi
        int toplam = 0;

        /*
        for(int i=1; i<number; i++){  // Sayıların kendisinden önceki 1 dahil bütün sayıların toplayan döngü
            toplam += i;
        }
        */

        int i = 1;
        while(i<number){  // i değeri istediğimiz değerden düşük oduğu sürece çalışacak
            toplam += i;
            i++;
        }

        Console.WriteLine($"Totals {toplam}"); // Toplamı yazdıran kod
    }
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   COMMENTS

```
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :5
Totals 10
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :3
Totals 3
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :12
Totals 66
PS C:\Users\furky\Desktop\Life\Donguler> dotnet run
How long should it be collected? :-5
Totals 0
PS C:\Users\furky\Desktop\Life\Donguler> []
```

```
furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git add .

furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Program.cs
        modified:   bin/Debug/net9.0/-Donguler.dll
        modified:   bin/Debug/net9.0/-Donguler.exe
        modified:   bin/Debug/net9.0/-Donguler.pdb
        modified:   obj/Debug/net9.0/-Donguler.AssemblyInfo.cs
        modified:   obj/Debug/net9.0/-Donguler.AssemblyInfoInputs.cache
        modified:   obj/Debug/net9.0/-Donguler.dll
        modified:   obj/Debug/net9.0/-Donguler.pdb
        modified:   obj/Debug/net9.0/-Donguler.sourcelink.json
        modified:   obj/Debug/net9.0/apphost.exe
        modified:   obj/Debug/net9.0/ref/-Donguler.dll
        modified:   obj/Debug/net9.0/refint/-Donguler.dll


furky@Furkan MINGW64 ~/desktop/life/Donguler (main)
$ git commit -m "While döngüsü tamamlandı"
[main c81e19d] While döngüsü tamamlandı
 12 files changed, 14 insertions(+), 6 deletions(-)
```