**Homework01 – Bartók Patrik Róbert (MNDJ3P) – 5th Group**

**Example:**

**Ex1 - Correct:**

s: 3600

h: 1

m: 0

so: 0

**Ex2 – Incorrect:**

s: 3600

h: 1

m: 0

so: 1

**Specification:**

**Be:** s∈N

**Ki:** h∈N, m∈N, so∈N

**Ef:** s > 0

**Uf:** h=s div 3600 and

so=s-h\*3600 and

m=so div 60 and

so=so-m\*60

**Stuktogram:**

A képen szöveg, képernyőkép, Betűtípus, sor látható

Automatikusan generált leírás

**Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Homework01

{

internal class Program

{

static void Main(string[] args)

{

int secondsBase;

int hours;

int minutes;

int seconds;

string output;

int days = 0;

do

{

Console.Write("Give the seconds since midnight: ");

int.TryParse(Console.ReadLine(), out secondsBase);

}

while (secondsBase <= 1);

if (secondsBase > 3600 \*24)

{

days = secondsBase / (3600 \* 24);

secondsBase = secondsBase - days \* (3600 \* 24);

}

if (secondsBase >= 3600)

{

hours = secondsBase / 3600;

}

else

{

hours = 0;

}

seconds = secondsBase - hours \* 3600;

if (seconds >= 60)

{

minutes = seconds / 60;

}

else

{

minutes = 0;

}

seconds = seconds - minutes \* 60;

output = hours + ":";

if (minutes < 10)

{

output = output + "0" + minutes + ":";

}

else

{

output = output + minutes + ":";

}

if (seconds <10)

{

output = output + "0" + seconds;

}

else

{

output = output + seconds;

}

Console.WriteLine("The exact time is: " + output);

if (days > 0)

{

Console.WriteLine("The number of days are: " + days);

}

Console.ReadKey();

}

}

}