1. **Uzdevums: Tabulas nobīde 1**

**using System;**

**class Program**

**{**

**static void Main()**

**{**

**Console.WriteLine("Uzdevums: Tabulas nobīde 1");**

**Console.WriteLine("Autors: Anastasiia Ustychenko");**

**Console.WriteLine("Datums: " + DateTime.Now.ToString("yyyy.MM.dd"));**

**Console.WriteLine("IDE: Visual Studio\n");**

**string persona = "ANASTASIIA USTYCHENKO";**

**string[] vardi = persona.Split(' ');**

**string vards = char.ToUpper(vardi[0][0]) + vardi[0].Substring(1).ToLower();**

**string uzvards = char.ToUpper(vardi[1][0]) + vardi[1].Substring(1).ToLower();**

**Console.WriteLine($"Mans vards: {vards}");**

**Console.WriteLine($"Mans uzvards: {uzvards}");**

**int rindas;**

**do**

**{**

**Console.Write("Ievadi rindu skaitu, ne mazak ka 5: ");**

**rindas = int.Parse(Console.ReadLine());**

**} while (rindas < 5);**

**int kolonas;**

**do**

**{**

**Console.Write("Ievadi kolonu skaitu, ne mazak ka 5: ");**

**kolonas = int.Parse(Console.ReadLine());**

**} while (kolonas < 5);**

**Console.WriteLine();**

**for (int i = 1; i <= rindas; i++)**

**{**

**Console.Write("+");**

**for (int j = 1; j <= kolonas; j++)**

**{**

**Console.Write("---+");**

**}**

**Console.WriteLine();**

**Console.Write("|");**

**for (int j = 1; j <= kolonas; j++)**

**{**

**if (j <= i)**

**{**

**Console.Write($" {i - j + 1} |");**

**}**

**else**

**{**

**Console.Write(" |");**

**}**

**}**

**Console.WriteLine();**

**}**

**Console.Write("+");**

**for (int j = 1; j <= kolonas; j++)**

**{**

**Console.Write("---+");**

**}**

**Console.WriteLine();**

**}**

**}**

1. **Uzdevums: Tabulas nobīde 2**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Uzdevums: Tabulas nobīde 2");

Console.WriteLine("Autors: Anastasiia Ustychenko");

Console.WriteLine("Datums: " + DateTime.Now.ToString("yyyy.MM.dd"));

Console.WriteLine("IDE: Visual Studio\n");

string persona = "ANASTASIIA USTYCHENKO";

string[] vardi = persona.Split(' ');

string vards = char.ToUpper(vardi[0][0]) + vardi[0].Substring(1).ToLower();

string uzvards = char.ToUpper(vardi[1][0]) + vardi[1].Substring(1).ToLower();

Console.WriteLine($"Vards: {vards}");

Console.WriteLine($"Uzvards: {uzvards}\n");

int kolonas;

do

{

Console.Write("Ievadi kolonu skaitu (ne mazak par 5): ");

kolonas = int.Parse(Console.ReadLine());

} while (kolonas < 5);

int rindas = kolonas \* 2 - 1;

for (int i = 1; i <= rindas; i++)

{

Console.Write("+");

for (int j = 1; j <= kolonas; j++)

{

Console.Write("---+");

}

Console.WriteLine();

Console.Write("|");

for (int j = 1; j <= kolonas; j++)

{

int vertiba;

if (i <= kolonas)

{

vertiba = (j >= kolonas - i + 1) ? i : 0;

}

else

{

vertiba = (j >= i - kolonas + 1) ? (2 \* kolonas - i) : 0;

}

if (vertiba != 0)

{

Console.Write($" {vertiba} |");

}

else

{

Console.Write(" |");

}

}

Console.WriteLine();

}

Console.Write("+");

for (int j = 1; j <= kolonas; j++)

{

Console.Write("---+");

}

Console.WriteLine();

}

}

1. **Uzdevums: Teksta manipulācijas**

using System;

class Program

{

static void Main()

{

Console.Write("Ievadi teikumu: ");

string teksts = Console.ReadLine().Trim();

string[] vardi = teksts.Split(' ', StringSplitOptions.RemoveEmptyEntries);

Array.Reverse(vardi);

if (vardi.Length > 0)

{

vardi[0] = char.ToUpper(vardi[0][0]) + vardi[0].Substring(1).ToLower();

}

Console.WriteLine(string.Join(" ", vardi));

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

{

char[] burti = vardi[i].ToCharArray();

Array.Reverse(burti);

vardi[i] = new string(burti);

}

if (vardi.Length > 0)

{

vardi[0] = char.ToUpper(vardi[0][0]) + vardi[0].Substring(1).ToLower();

}

Console.WriteLine(string.Join(" ", vardi));

int vidus = teksts.Length / 2;

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

{

int start = Math.Max(0, vidus - i);

int end = Math.Min(teksts.Length, vidus + i + (teksts.Length % 2));

Console.WriteLine(teksts.Substring(start, end - start));

}

char[] temp = teksts.ToCharArray();

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

{

if (vidus - i >= 0) temp[vidus - i] = ' ';

if (vidus + i < teksts.Length && i != 0) temp[vidus + i] = ' ';

Console.WriteLine(new string(temp));

}

for (int i = teksts.Length - 1; i >= 0; i--)

{

Console.WriteLine(teksts.Substring(i));

}

}

}

1. **Uzdevums: Tabulas aizpilde**

using System;

class Program

{

static void Main()

{

string vards = "Anastasiia";

string uzvards = "Ustychenko";

Console.WriteLine($"Mans vards ir {vards} un taja ir {vards.Length} simboli");

Console.WriteLine($"Mans uzvards ir {uzvards} un taja ir {uzvards.Length} simboli\n");

int min = vards.Length;

int max = vards.Length + uzvards.Length;

Random rand = new Random();

Console.Write("+----+");

for (int i = 0; i < vards.Length; i++) Console.Write("---+");

Console.WriteLine("-----+-----+-----+-----+");

Console.Write("| X |");

foreach (char c in vards) Console.Write($" {c} |");

Console.WriteLine(" max | min | vid | sum |");

Console.Write("+----+");

for (int i = 0; i < vards.Length; i++) Console.Write("---+");

Console.WriteLine("-----+-----+-----+-----+");

foreach (char c in uzvards.ToLower())

{

Console.Write($"| {c} |");

int[] numbers = new int[vards.Length];

int sum = 0;

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

{

numbers[i] = rand.Next(min, max + 1);

sum += numbers[i];

Console.Write($"{numbers[i],3}|");

}

Array.Sort(numbers);

double average = Math.Round((double)sum / vards.Length, 1);

Console.Write($"{numbers[vards.Length-1],4} |");

Console.Write($"{numbers[0],4} |");

Console.Write($"{average,4} |");

Console.Write($"{sum,4} |\n");

Console.Write("+----+");

for (int i = 0; i < vards.Length; i++) Console.Write("---+");

Console.WriteLine("-----+-----+-----+-----+");

}

}

}