

Detyra te shtepise

Hyrje ne Struktura e te te Dhenave

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Viti I-Grupi II

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1.Declare several variables by selecting for each one of them the most appropriate of the types sybyte,byte,shprt,ushort,int,uint,long and u long in order to assign them the following values:

52,130;-115;4825932;97;-10000;2000;224;970;700,00;112; -44; -1,000,000;1990; 123456789123456789.

using System;

namespace ConsoleApp1

{

class Program

{

static void Main(string[] args)

{

ushort number1 = 52130;

sbyte number2 = -115;

uint number3 = 4825932;

byte number4 = 97;

short number5 = -10000;

short number6 = 20000;

byte number7 = 224;

uint number8 = 970700000;

sbyte number9 = 112;

sbyte number10 = -44;

int number11 = -1000000;

ushort number12 = 1992;

long number13 = 123456789123456789;

Console.WriteLine(number1);

Console.WriteLine(number2);

Console.WriteLine(number3);

Console.WriteLine(number4);

Console.WriteLine(number5);

Console.WriteLine(number6);

Console.WriteLine(number7);

Console.WriteLine(number8);

Console.WriteLine(number9);

Console.WriteLine(number10);

Console.WriteLine(number11);

Console.WriteLine(number12);

Console.WriteLine(number13);

}

}

}

2.Which of the following values can be assigned to variables of type float,double and decimal;5,-5.01, 34.56789023; 12,345; 8923.1234857; 3456.091124875956542`51256683467?

using System;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

float f = 5f;

Console.WriteLine(f); //Float

double d = -5.01d;

Console.WriteLine(d); //Double

decimal m = 34.5m;

Console.WriteLine(m); //Decimal

}

}

}

3.Write a program which compares correctly two real numbers with accouracy at least 0.000001.

using System;

namespace ConsoleApp3

{

class Program

{

static void Main(string[] args)

{

decimal number1 = 0.000000m;

decimal number2 = 0.000001m;

number1 += number2;

Console.WriteLine(number1.ToString("#.######"));

}

}

}

4.Intialize a variable of type int with a value of 256 in hexadecimal format(256 is 100 in a numeral system with base 16).

using System;

namespace ConsoleApp4

{

class Program

{

static void Main(string[] args)

{

int num = 0x100;

Console.WriteLine(num);

}

}

}

5.Declare a variable of type char and assign as a value the character,which has Unicode code, 72(use the Windows calculator in order to find hexadecimal representation of 73).

using System;

namespace ConsoleApp5

{

class Program

{

static void Main(string[] args)

{

char number = '\u0072';

Console.WriteLine(number);

}

}

}

6.Declare a variable isMale of type bool and assign a value to it depending on your gender.

using System;

namespace ConsoleApp6

{

class Program

{

static void Main(string[] args)

{

bool isMale = true;

Console.WriteLine(isMale);

}

}

}

7.Declare two variables of type string with values”Hello” and”World”.Declare a variable of type object.Assign to this variable the value obtained of concentration of the two string variables(add space if necessary).Print the variable of type

object.

using System;

namespace ConsoleApp7

{

class Program

{

static void Main(string[] args)

{

string str1 = "Hello";

string str2 = "World";

object obj = str1 + " " + str2;

Console.WriteLine(str1 + str2);

// ose

Console.WriteLine("");

Console.WriteLine("ose");

Console.WriteLine("");

Console.WriteLine(str1);

Console.WriteLine(str2);

}

}

}

8. Declare two variables of type string and assign them values”Hello” and “World”.Declare a variable of type object and assign to it the value obtained of concatenation of the two variables of type string(do not miss the space in the middle).Declare a third variable of type string and initialize it with the value of the variable of the type object(you should use type casting).

using System;

namespace ConsoleApp8

{

class Program

{

static void Main(string[] args)

{

string str1 = "Hello";

string str2 = "World";

object obj = str1 + " " + str2;

string str3 = obj.ToString();

Console.WriteLine(obj);

}

}

}

9.Declare two variables of type string and assign them a value “The “use”of quotations causes difficulties.”(Without the outer quotes).In one of the variables use quoted string and in the other do not use it.

using System;

namespace ConsoleApp9

{

class Program

{

static void Main(string[] args)

{

string str1 = "The \"use\" of quotations causes difficulties.";

string str2 = "The " + "\u0022" + "use" + "\u0022" + " of quotations causes difficulties";

Console.WriteLine(str1);

Console.WriteLine(str2);

}

}

}

10.Write a program to print a figure in the shape of a heart by the sign”0”.

using System;

namespace ConsoleApp10

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine(" 0 0 ");

Console.WriteLine("0 0 0 0");

Console.WriteLine(" 0 0 0 0");

Console.WriteLine(" 0 00 0");

Console.WriteLine(" 0 0 ");

Console.WriteLine(" 0 0 ");

Console.WriteLine(" 0 0 ");

Console.WriteLine(" 00 ");

}

}

}

11.Write a program that prints on the console isosceles triangle which sides consist ot the copyright character “**©**”.

using System;

namespace ConsoleApp11

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine(" ©");

Console.WriteLine(" © ©");

Console.WriteLine(" © ©");

Console.WriteLine(" © ©");

Console.WriteLine("©©©©©©©©");

}

}

}

12.A company dealing with marketing wants to keep a data record of its employees.Each record should have the following characteristic-first name,last name, age gender(‘m’ or ‘f’) and unique employee number(2756000 to 27560000).Declare appropriate variables needed to maintain the information for and employee by using the appropriate data types and attribute names.

using System;

namespace ConsoleApp12

{

class Program

{

static void Main(string[] args)

{

string firstName = "Besiana";

string lastName = "Sinani";

byte age = 18;

char gender = 'm';

decimal id = 1023233;

Console.WriteLine(firstName);

Console.WriteLine(lastName);

Console.WriteLine(age);

Console.WriteLine(gender);

Console.WriteLine(id);

}

}

}

13.Declare two variables of type int.Assign to them values 5 and 10 respectively.Exchange(swap) their values and print them.

using System;

namespace ConsoleApp13

{

class Program

{

static void Main(string[] args)

{

int a = 2;

int b = 3;

a = a + b;

b = a - b;

a = a - b;

Console.WriteLine("a:{0} b:{1}", a, b);

}

}

}