**Programming exam 2. Sem\_int\_net\_A fall 2015**

**Question no. 1**

What does following lines?

Int16 i1= Int16.MaxValue;

 Console.WriteLine(i1);

 i1++;

 Console.WriteLine(i1);

 byte b1 =byte.MaxValue;

 Console.WriteLine(b1);

 b1++;

 Console.WriteLine(b1);

What will the output look like?

Could you do the same with a for or a while loop?

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**Question no. 2**

What does the following lines?

DateTime date1;

 date1 = DateTime.Parse("2015-12-06");

 DateTime date2;

 date2 = Convert.ToDateTime("2015-12-06");

 Console.WriteLine(date1.ToLongDateString());

Console.WriteLine(date2.ToLongDateString());

How would you enter the date and time right now into

A variable of the type DateTime?

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**Question no. 3**

What does the following method?

 private string dec2bin(Int32 decint)

 {

 string result="";

 Int32 i;

 for (i = 65536; i > 0; i = i / 2)

 {

 if (decint >= i)

 {

 result += "1";

 decint = decint - i;

 }

 else

 result += "0";

 }

 return result;

 }

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**Question no. 4**

By use of a “FOR LOOP” write a simple Console-application that can do following:

Ask for a number between 1 and 10.

Get the number.

Write out to the screen the number of lines according to the entered number.

Write also the lines to a textfile called “loop.txt”.

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**Question no. 5**

**What does this program, and how?**

 class Program

 {

 static public int factr(int n)

 {

 if (n == 1)

 return 1;

 else

 return factr(n - 1) \* n;

 }

 static public int facti(int n)

 {

 int t, result;

 result = 1;

 for (t = 1; t <= n; t++)

 result \*= t;

 return result;

 }

 static void Main(string[] args)

 {

 Console.WriteLine("Factorials using recursive method");

 Console.WriteLine("Factorial of 3 is " + factr(3));

 Console.WriteLine("Factorial of 4 is " + factr(4));

 Console.WriteLine("Factorial of 5 is " + factr(5));

 Console.WriteLine();

 Console.WriteLine("Factorials using iterative method");

 Console.WriteLine("Factorial of 3 is " + facti(3));

 Console.WriteLine("Factorial of 4 is " + facti(4));

 Console.WriteLine("Factorial of 5 is " + facti(5));

 Console.WriteLine();

 }

 Console.ReadLine();

 }

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**Question no. 6**

What does the following method?

 private void prime(int n)

 {

 int i = 3, count, c;

 if (n >= 1)

 {

 listBox1.Items.Add(2.ToString());

 }

 for (count = 2; count <= n; )

 {

 for (c = 2; c <= i - 1; c++)

 {

 if (i % c == 0)

 break;

 }

 if (c == i)

 {

 listBox1.Items.Add(i.ToString());

 count++;

 }

 i++;

 }

 }

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**Question no. 7**

**What does this few lines of code?**

 string cstr;

 int count=0;

 listBox1.Items.Add(9.ToString());

 StreamReader sr = new StreamReader("file.txt");

 while ((cstr = sr.ReadLine()) != null)

 {

 string[] words = cstr.Split(' ');

 count = count + words.Length;

 }

 sr.Close();

 listBox1.Items.Add(count.ToString());

**Small extra questians**

How to make a delay on 100 milliseconds.

Make a program to calculate the third angle when angle 1 and 2 are 33o and 55o.

How would you make a program to tell how many bits a int can contain.

Declare a longint, give it a valid value, now you are asked to convert it to a float, how would you do?

Make a windows application find a picture, place the picture in a picturebox.

Declare a dualdimensional array with the values 1,2,3,4 and 3,6,9,12 use foreach and display like this: 1 – 3, 2 – 6, 3 – 9, 4 – 12.

Make a program to copy a textfile.

Make a program that displayes the time.

Read a textfile and count the words. Display the number of words.

You have a code to create a table, use try and catch and messagebox to show that the table is already created.

Tell all the commands you know about use of a listBox.

Make a method “private float power(float n, int p)” that returns with np.

Make an infinite loop. How would you stop the loop? (what command?)

You have a string “Mary had a little lamb” how would you replace “little lamb” with “black sheep”?

Display 2750 in hexadecimal.

How do you declare variables? Global v/s Local.

How many type of variables do you know by the mind, and do you know how big amount of data can it contain.

Declare a method, we are giving tree integers, the method are adding all tree and returning the result.

Show the method, explain how it returns the one integer?

Is there any way that we can return more than one integer?

How to find a substring in a string, if it exists then how to delete it

How can you declare a constant, a variable where we are not able to change the value

Show as many loops as you remember, and explain how they are working.