1st c# lecture

```
First program we wrote:
using System;
namespace hello_world_2
{
internal class Program
 {
  static void Main(string[] args)
  {
   Console.WriteLine("Hello World!");
   Console.WriteLine("dwayne johnson the rock");
   Console.WriteLine("please write your name");
   string name = Console.ReadLine();
   Console.WriteLine("welcome " + name + " congrats your programming survey");
  }
 }
}
second program with age
using System;
namespace hello world 2
```

```
{
  internal class Program
  {
    static void Main(string[] args)
    {
        Console.WriteLine("please write your age");
        int age = Int32.Parse(Console.ReadLine());
        Console.WriteLine("you are " + age + " years old");
    }
}
```

2nd c# lecture

```
*/
}

notes: we learned that double divide (//) allows us to put comments
when you wanna input integer you should put Int32.Parse(Console.Readline());
double divide is comment for one line, if you wanna give multi-line comment we use /* and */
```

```
like this:
* comment1
*comment2
*/
C# is case sensitive which means uppercase or lowercase makes difference (different
variables are for example name, Name, NAME, nAmE...)
using System;
namespace ConsoleApp2
{
 internal class Program
 {
  static void Main(string[] args)
  {
   Console.WriteLine("Type your name: ");
   string name = Console.ReadLine();
   Console.WriteLine("type your age: ");
   int age = Int32.Parse(Console.ReadLine());
   //printing two variables at once using plus operator
   Console.WriteLine("your name: " + name + " and your age: " + age);
  }
```

```
}
}
using System;
namespace ConsoleApp2
{
 internal class Program
 {
  static void Main(string[] args)
  {
   Console.WriteLine("Hello World!");
   int age = Int32.Parse(Console.ReadLine());
   string name = Console.ReadLine();
   Console.WriteLine("your name " +name+ " and your age " + age);
   //another method to printout something using placeholder
   Console.WriteLine("your name: {0} and your age {1} and {2} ", name, age, name);
  }
 }
}
using System;
namespace ConsoleApp2
{
 internal class Program
```

```
{
  static void Main(string[] args)
  {
   Console.WriteLine("Hello World!");
   int age = Int32.Parse(Console.ReadLine());
   string name = Console.ReadLine();
  //another method to printout something
   Console.WriteLine($"your name: {name} and your age is {age} ");
  }
 }
}
notes: these are 3 methods to printout something
ESCAPE CHARACTERS
notes: Console.WriteLine("Oguzhan\nSucuoglu"); will give output
oguzhan
sucuoglu
when you wanna ad double quotation marks
Console.WriteLine("oguzhan"sucuoglu");
\t
```

```
\v
\n
...
//variable declaration
string student_name;
//assignment a value to the variable
student_name = "oguzhan";
//both declaration and assignment
string student_name = "oguzhan";
```

IDENTIFIER

An identifier, in C#, is the user-defined name of a program element. It can be a namespace, class, method, variable or interface. Identifiers are symbols used to uniquely identify a program element in the code. They are also used to refer to types, constants, macros and parameters.

rules for naming identifier

must be unique

must start with a letter not a number or special characters

can't contain more characters than 512

cannot contain function words

CONSTANT

LITERALS

OPERATOR EVALUATION & PRECEDENCE

3rd c# lecture

I'll insert when I find it

4th c# lecture

```
\1) example
   Console.WriteLine("Please type a degree between 0 and 360.");
   double degree = Double.Parse(Console.ReadLine());
   double radyan = degree * Math.PI / 180;
   double gradyan = degree * 200 / 180;
   Console.WriteLine("Radyan = " + radyan);
\2) example
   Console.WriteLine("Please type the height of the triangle.");
   double height = Double.Parse(Console.ReadLine());
   Console.WriteLine("Please type the length of base of the triangle.");
   double baseoftriangle = Double.Parse(Console.ReadLine());
   double area = height * baseoftriangle / 2;
   Console.WriteLine("Area of the triangle = " + area);
\3) example
   // finding area of circle slice angle and radius (area = angle/360 * pi * r^2)
   Console.WriteLine("Please enter the angle of the slice.");
   double angle = Double.Parse(Console.ReadLine());
```

```
Console.WriteLine("Please enter the radius of the slice.");
   double radius = Double.Parse(Console.ReadLine());
   double areoftheslice = radius * radius * angle * Math.PI / 360;
   Console.WriteLine("Area of your slice = " + areoftheslice);
\4) example
   Console.WriteLine("please type a number.");
   int number = Int32.Parse(Console.ReadLine());
   if (number > 0)
   {
    Console.WriteLine("number is positive.");
   else if(number < 0)
   {
    Console.WriteLine("number is negative.");
   }
   else
   {
    Console.WriteLine("number is zero.");
we don't use; end of the if condition
\5) example
Console.WriteLine("please type a number.");
   int number = Int32.Parse(Console.ReadLine());
   if (number % 2 == 0)
```

```
{
    Console.WriteLine("the number is even.");
   }
   else
   {
    Console.WriteLine("the number is odd.");
   }
6)
   Console.WriteLine("please type a number.");
   double number = Double.Parse(Console.ReadLine());
   if (number <= 4)
   {
    double fx = -2 * number + 8;
    Console.WriteLine("result is = " + fx);
   }
   else
   {
    double fx = number/2 -2;
    Console.WriteLine("result is = " + fx);
   }
\7) example
   Console.WriteLine("please type 2 numbers first x and then y.");
```

```
int horizontal = Int32.Parse(Console.ReadLine());
   int vertical = Int32.Parse(Console.ReadLine());
   if (horizontal > 0 & & vertical > 0)
   {
    Console.WriteLine("first region");
   }
   else if (vertical > 0 && horizontal < 0)
   {
    Console.WriteLine("second region");
   }
   else if (horizontal < 0 && vertical < 0)
   {
    Console.WriteLine("third region");
   }
   else if (vertical < 0 && horizontal > 0)
   {
    Console.WriteLine("fourth region");
   }
if there is only one statement after condition we don't have to use curly braces.
\8) example
   int a = 4;
   int b = 10;
```

```
int c = 20;
if (a >= 5)
{
    b = 30;
    c = 40;
}
Console.WriteLine("b = " + b);
Console.WriteLine("c = " + c);
```