**First program and inspecting the first program**

IDE = integrated development environment

First console application

Console writeline , console readline

Correct typing, case sensitive

intellisense automatic pop up

Visual studio error displaying for example outside of curly braces incorrect method call, double quotes forget, input error, letter mistype, case mistype, forgetting ;

Writing c# code is an excersise of preciness

.NET library code helps us to do jobs easily , it is written by microsoft employees

Such as doing math operations, displaying text on the screen, communicating via internet etc

The second thing is CLR , common language run time, it does the low level things such as interacting with operation system

Console is a library class

inner most curly braces code block has a name and it is a method

method vs function > in object oriented languages functions are called as method because they are under a class

a class is a organizational tool , a way to keep methods organized, keep methods organized, dictate where the code should reside

namespace another way of keeping code organized , will talk about it later

console.writeline executing method inside console class that someone at microsoft written

both methods are organized in console class

. allow us to access class member / method > called as member accessor

Double quotes means we are passing literal string

; is like period that completes sentence in c#

We can write multiple thoughts in a single line with ;

Empty lines are not important

intentedion doesnt matter

show line numbers via options

IDE’s intendention makes the code more readable

Coloring differently the elements on the text editor makes it more human readable

Solution explorer help us to see what we have

Solution explorer is the main navigation to our files, settings and other stuff

All of the things in the solution explorer are used by compiler to compiled into executable assembly

Show where are the files by right clicking solution explorer and open folder

Show project file csproj file , explain a little bit XML (eXtensible Markup Language)

Debug version vs release version

Select release version and hit compile

When debugging visual studio can sync with the application and see what is happening

Show different configuration options and explain briefly

Methods are organized in classes, classes are organized in namespaces

**Overview of the visual studio**

How to open back project

Recent projects list

Open projct link, file open project

Recent projects and solutions from file menu

Hided items > toolbox

Auto hide > pin button , right left all windows have auto hide

Main area tabs , opened file

Tool bar, solution explorer, current state left bottom, properties window

Line column character bottom menu

Design context, compiling context, debugging context

Put debug mark console writeline > make sure the run mode is in debug mode

F9 also puts

Locals window , call stack window etc , they appear during debug time

F5 starts the application

F10 > step over

Click red dot to remove, or f9 to remove break point

// are used to put comments or comment out code

Select multiple lines of code and use comment button in menu

Multi line comment /\* \*/

Type Con and the intellisense will pop up

When typed any delimeter it will complete the word and type it such as . or space etc

When I hit . it completed as writeline because I have used it previous, intellisense

When the writeline popped up if I type the next logical operator such as parantheses it will complete it

It also gives litte explanation about what does that method do

It shows what kind of input the method takes, will be explained later

Hovering mouse over method gives information

Intentionally missspel write line and wait red arrow to appear, it gives clue about what may be missing

You can change environment variables in visual studio

For example enabling line numbers

If you login into visual studio, these changes are loaded from server and applied to your new installation

Tools options environment fonts and colors show example white black

Show code roll over feature clicking –

Ctrl M+L roll over or up all

\* in the opened file name means your code is not saved

Yellow verticle also shows this part is yet to be saved, green means recently been changed and recently been saved

Close program.cs and show 1 click preview right on the side the tab

Any edit to code or double click will open it in edit mode – positioned at the left

No green line or yellow line means fresh opened

**Declaring Variables and Assigning Values Duration**

Variables are simply buckets in memory that we can put data in and take data out