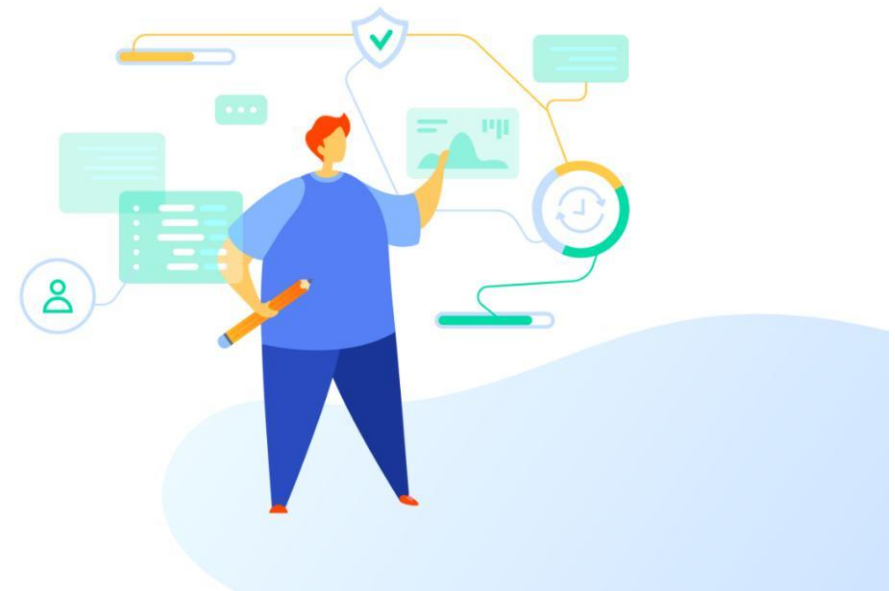


C#



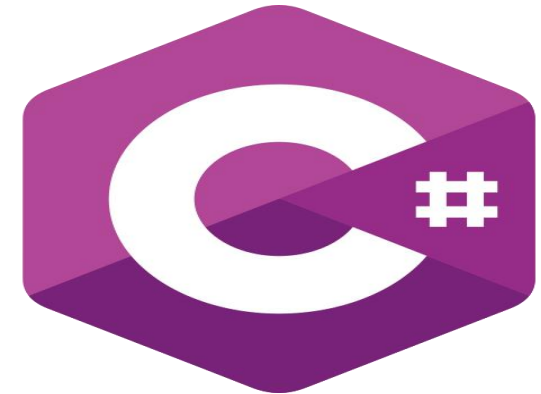
Introduction

- Microsoft developed C#.
- Anders Hejlsberg, the principal architect of C#.
- C# will be familiar to those, who have programmed in C, C++, or Java.
- C# is standardized by ECMA.

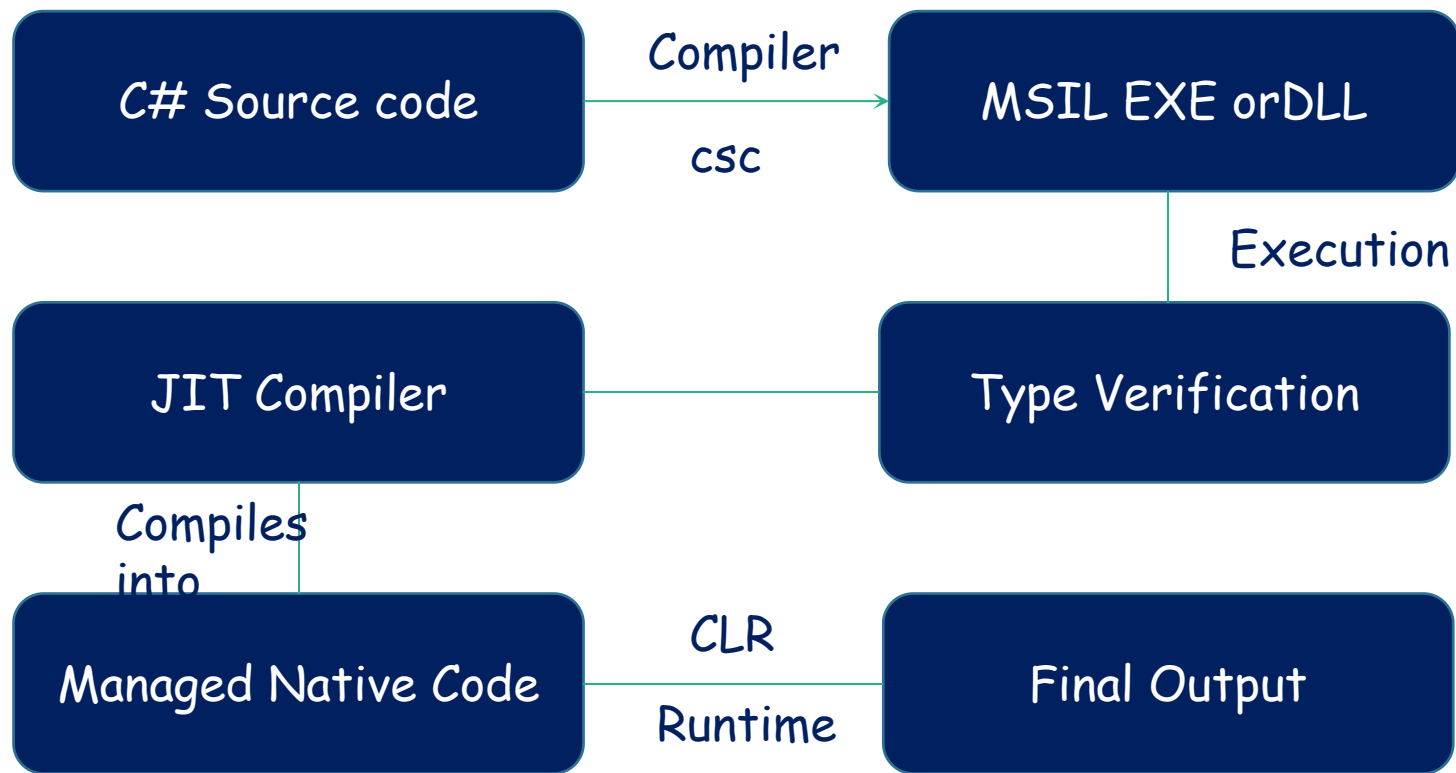


Overview

- Introduction to C#
- What is C Sharp ?
- Working of C Sharp
- Features of C Sharp
- Basic Programming Structure
- Namespaces
- Data Types
- Variables
- Expressions and Operators
- Control Statement- Select
- Control Statement- Loop
- Array , Enums



Working of C#



Compilation of C sharp

It can be compiled with the following command line:

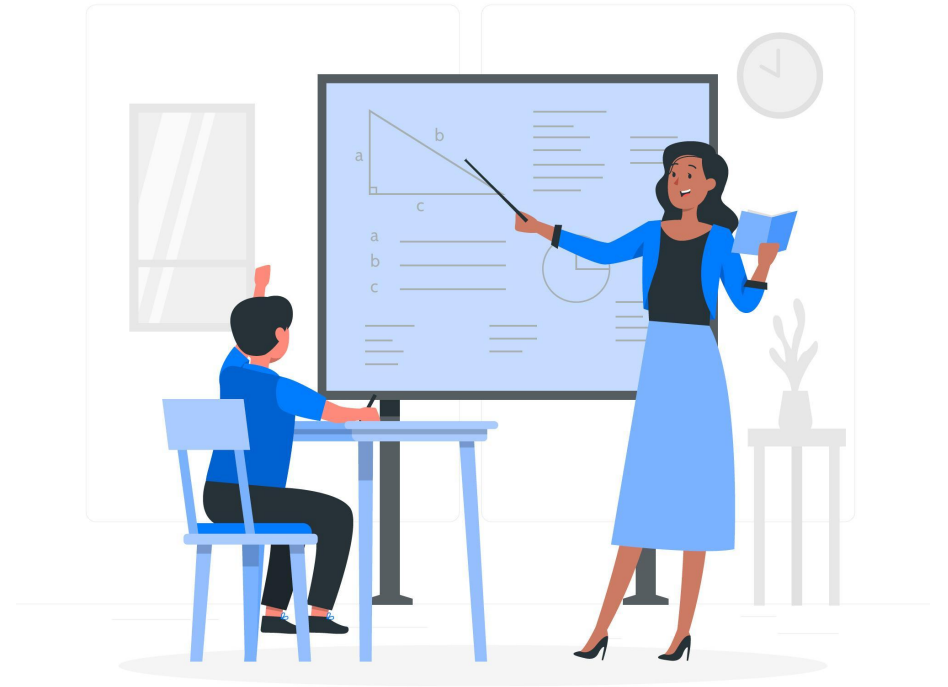
```
csc Welcome.cs
```

This produces a file named `Welcome.exe`, which can then be executed.



What is c#

- The *C#* programming language (pronounced "C-Sharp") .
- C Sharp is a powerful object-oriented programming languages.
- Microsoft developed *C#*, a new programming language based on the *C* and *C++* languages.
- *C#* is a case sensitive language.
- *C#* support component-oriented programming.



C# Language Features

- Many of the features in C# language are preexisted in various languages such as C++, Java, Pascal, and Visual Basic.
- Object Oriented.
- Simple and Flexible.
- Automatic Memory Management.
- Cross Platform Interoperability.



C# Editors and IDEs

Notepad

Visual
Studio .NET



Application Types In C#

Class Library:- Creates a project for creating classes that can be used in other applications.

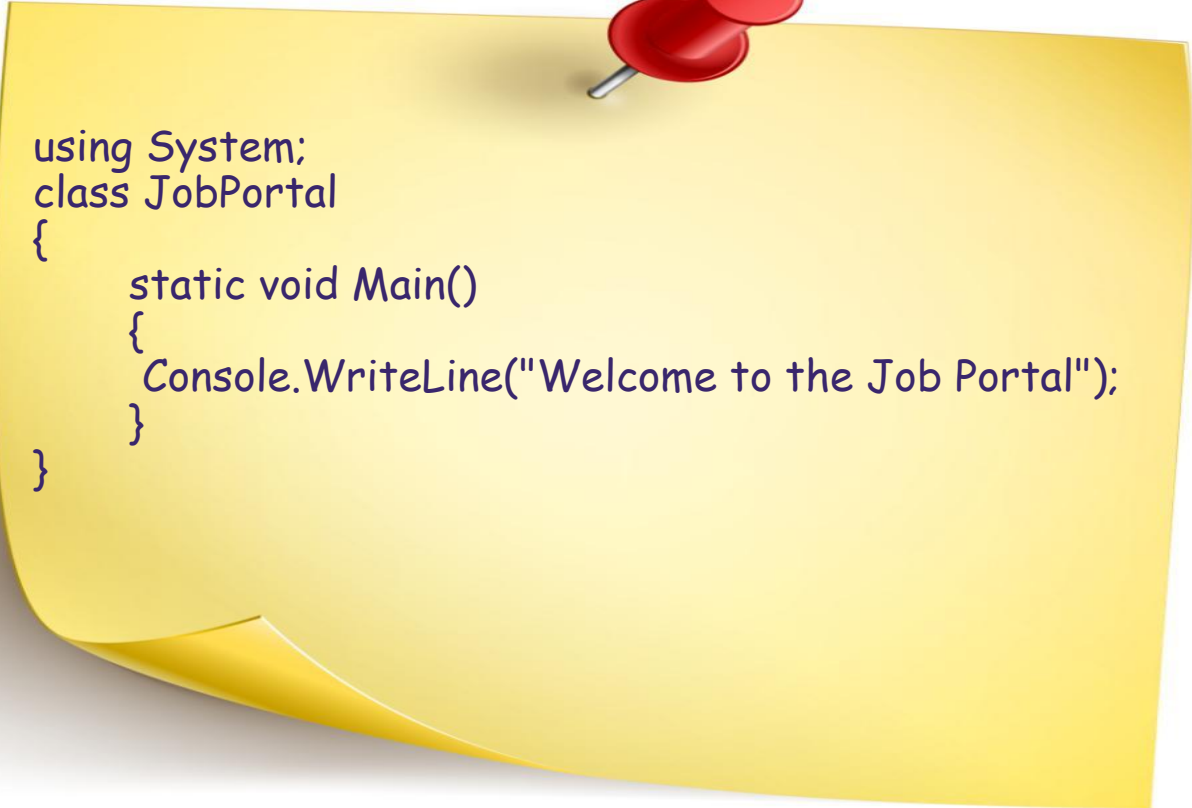
Console Application:- Creates a Visual C# application with a command-line interface.

Asp.Net Web Application:- Creates a Visual C# application with a Web user interface.

Asp.Net Web Service:- Creates an XML Web service with Visual C# that other applications can access.

Mobile Application:- Creates an application for mobile devices.

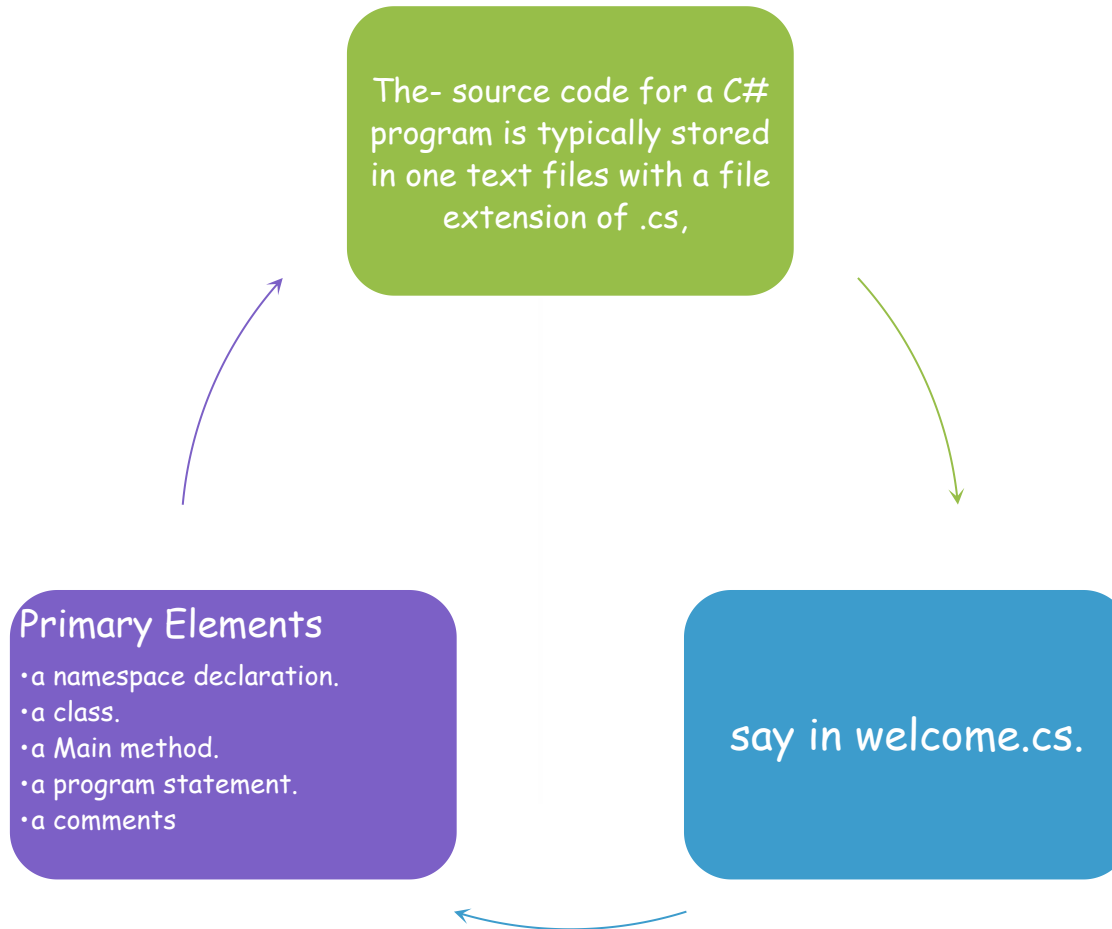
Programming Structure



```
using System;  
class JobPortal  
{  
    static void Main()  
    {  
        Console.WriteLine("Welcome to the Job Portal");  
    }  
}
```



Programming Structure

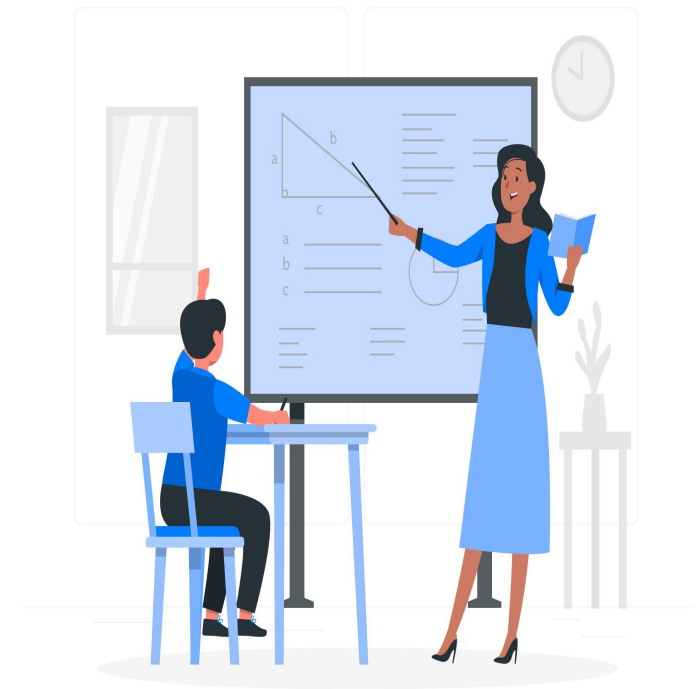
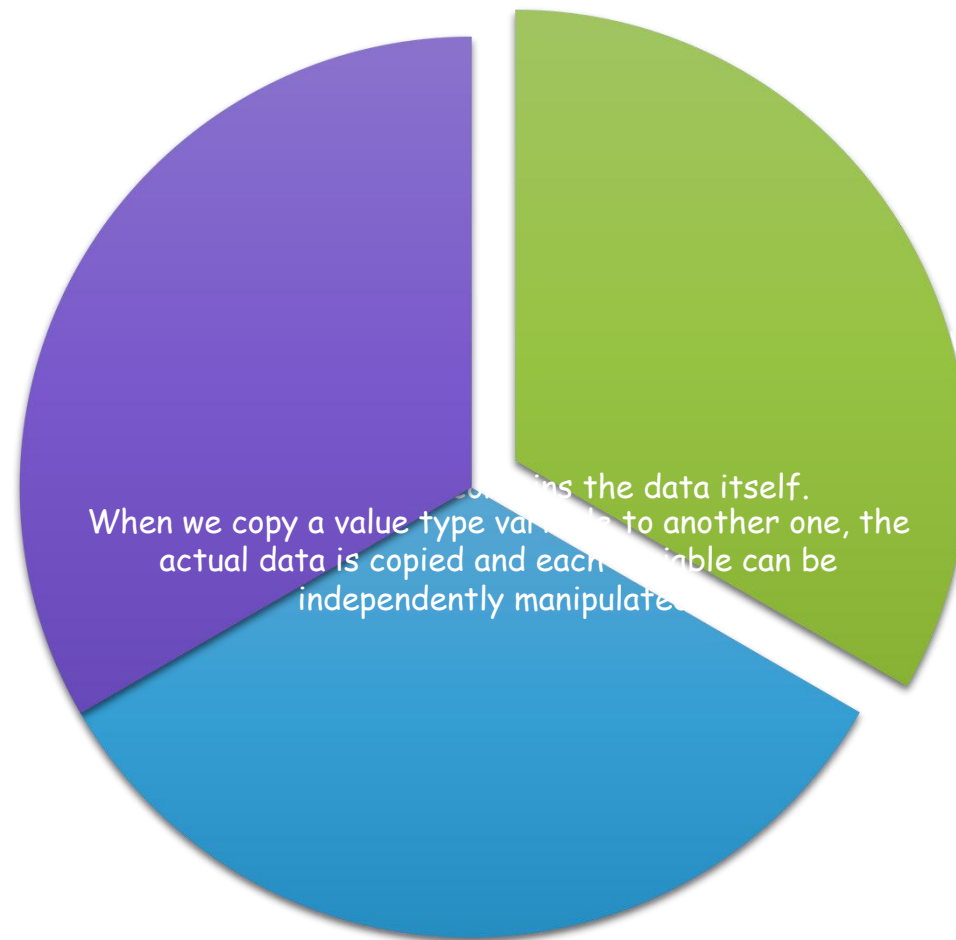


Data types

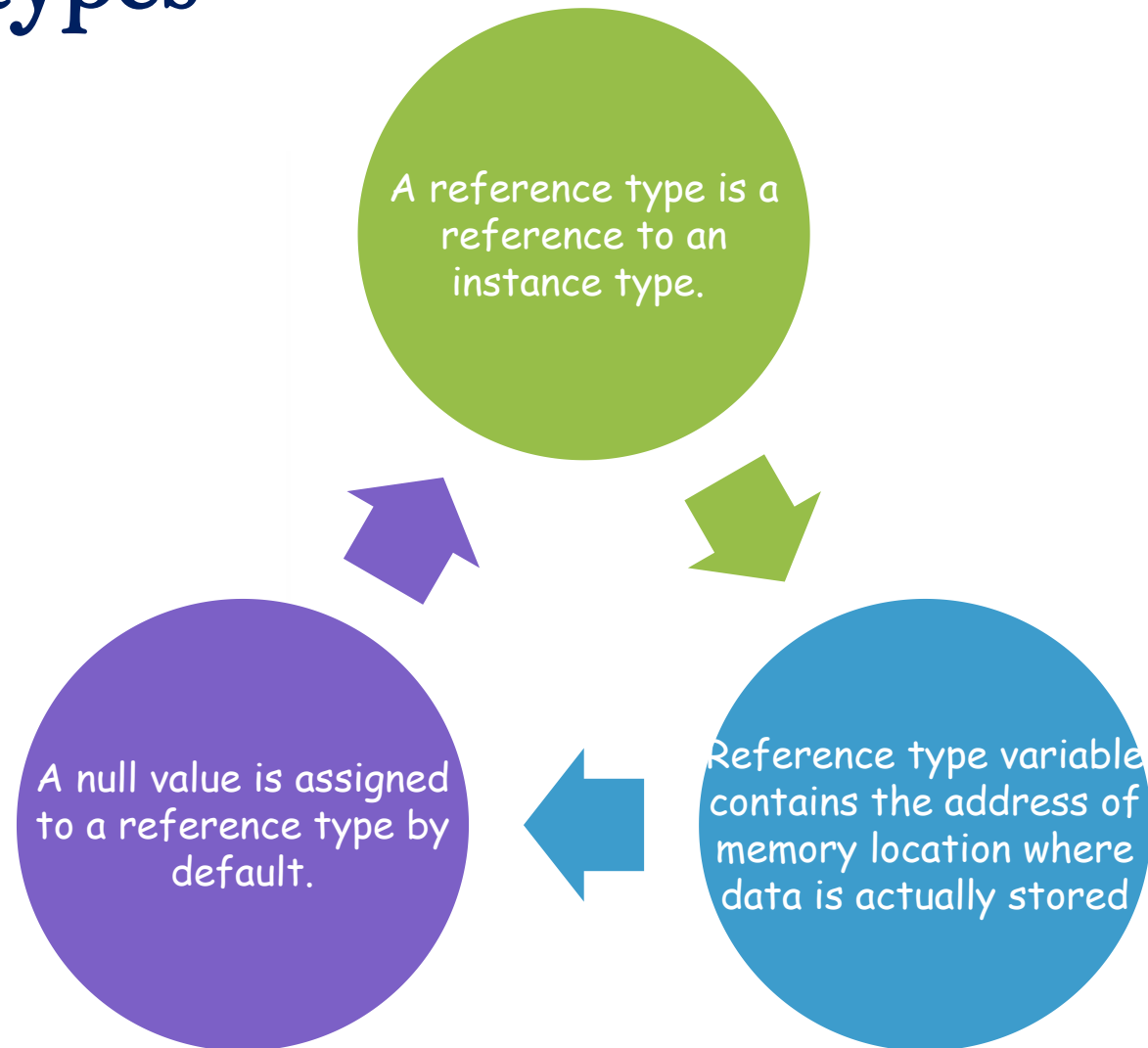
- ❑ C# supports mainly two kinds of types.
 - ✓ value types .
 - ✓ Reference types.
- ❑ value types are - char, int, structures, enums .
- ❑ Reference types are - class, interface, delegate, arrays.



Value type



Reference types



Thank You