High School Programming

Lecture: 19

Recap Previous Lecture

- Constructor in C#

- Example of Constructor in C#

- Types of Constructor

Agenda

- Access Modifiers in C#

- Types of Access Modifiers in C#

- Example of Access Modifiers in C#

- Encapsulation in C#

- Example of Encapsulation in C#

Access Modifiers

-- Access modifiers in C# are keywords that define the accessibility of types and members, such as classes, methods, and fields.

C# has the following Access Modifiers:

Modifier	Description
public	The code is accessible for all calsses
private	The code only accessible within the same class
protected	The code accessible within the same calss, or in a class that is inherited from that class.
internal	The code is only accessible within its own assembly.

Public Modifier in C#

-- If you declare a field with a public access modifier, it is accessible for all classes:

Example:
```
class Car
{
  public string model = "Mustang";
}

class Program
{
  static void Main(string[] args)
  {
    Car myObj = new Car();
    Console.WriteLine(myObj.model);
  }
}
```

Private Modifier in C#

-- If you declare a field with a private access modifier, it can only be accessed within the same class:

Example:

```
class Car
{
  private string model = "Mustang";

  static void Main(string[] args)
  {
    Car myObj = new Car();
    Console.WriteLine(myObj.model);
  }
}
```

Encapsulation in C#

-- Encapsulation is a fundamental concept in object-oriented programming (OOP). In C#, **encapsulation** is achieved through the use of classes and access modifiers such as public , private , and protected.

Example:

```csharp
namespace EncapsulationDemo {
    class Bank {
        public long AccountNumber;
        public string Name;
        public int Balance;

        public void GetBalance() {
        }
        public void WithdrawAmount() {
        }
        public void Deposit() {
        }
    }
}
```

Useful Resource

Learn
C# Programming
For Loop

Learn
SQL Server
Database

Learn
ASP.Net Core

Learn
Cyber Security

Contact Me

Phone
+8801321869515

Website
www.mrhridoy.me

Mail
mrhridoy.me@gmail.com

Facebook
Mahinur Rahaman Hridoy

Thank You