

HABIB UL REHMAN

01

C#



REFLECTIONS



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# Introduction to Reflection in C#

Explore the types within an assembly using C# reflection.

```
1 var assembly = typeof(MyClass).Assembly;
2 var types = assembly.GetType();
3 foreach (var type in types)
4 {
5     Console.WriteLine(type.FullName);
6 }
```



# Retrieving Methods with Reflection

Learn to fetch methods dynamically using C# reflection.

```
1 var methods = typeof(MyClass).GetMethods();
2 foreach (var method in methods)
3 {
4     Console.WriteLine(method.Name);
5 }
```

# Accessing Properties via Reflection

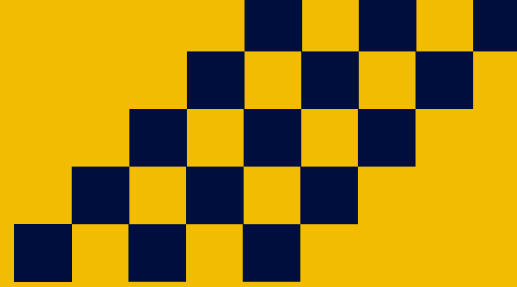
Uncover the power of C# reflection to access class properties.

```
1 var properties = typeof(MyClass).GetProperties();  
2 foreach (var property in properties)  
3 {  
4     Console.WriteLine(property.Name);  
5 }
```

# Invoking Methods Dynamically

Master the art of invoking methods dynamically in C#.

```
1 var instance = new MyClass();  
2 var method = typeof(MyClass).GetMethod("MyMethod");  
3 //invoke the method dynamically  
4 method.Invoke(instance, null);
```

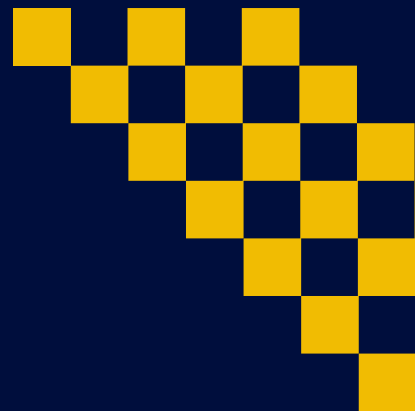


# Modifying Fields with Reflection

Dive into altering private fields using C# reflection wizardry.

```
1 var field = typeof(MyClass).GetField("myField",  
    BindingFlags.NonPublic | BindingFlags.Instance);  
2 //set value dynamically for a field  
3 field?.SetValue(instance, newValue);
```

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