**Delegates In C# Programming**

* **Delegate meaning from google:** a person sent or authorized to represent others, in particular an elected representative sent to a conference.
* Delegate is a type which holds a method’s reference in an object.
* It is also called function pointer.
* Delegate is of reference type.
* Delegate signature should be as same as the method signature referencing by a delegate.
* Delegate can point to a parameterized method or non-paramterized method.
* Delagate has no implementation means no body with { }.
* We can use **invoke()** method with delegates.
* Delegates are used to encapsulate methods.
* In the .net framework, a delegate points to one or more methods. Once you instantiate the delegate, the corresponding methods invoke.
* Delegates are objects that contain references to methods that need to be invoked instead of containing the actual method names
* Using delegates, you can call any method, which is identified only at run-time.
* A delegate is like having a general method name that points to various methods at different times and invokes the required method at run-time.
* In c#, invoking a delegate will execute the referenced method at run-time.
* To associate a delegate with a particular method, the method must have the same return type and parameter type as that of the delegate.