C# Dispose vs Finalize

# How they are Defined

Dispose: The method Dispose( ) is defined in the interface IDisposable interface.

Finalize: The method Finalize( ) is defined in object class.

# The syntax

Dispose:

public void Dispose( )

{

// Dispose code here

}

Finalize:

protected void Finalize( )

{

// finalization code here

}

# How they are Invoked

Dispose: The method Dispose( ) is invoked by the user.

Finalize: The method Finalize( ) is invoked by the Garbage Collector.

# The Purpose

Dispose: Method Dispose( ) is used to free unmanaged resources whenever it is invoked.

Finalize: Method Finalize( ) is used to free unmanaged resources before the object is destroyed.

# Access Specifier

Dispose: The method Dispose( ) is declared as public.

Finalize: The method Finalize( ) is declared as protected.

# Action

Dispose: The method Dispose( ) is faster and instantly disposes an object.

Finalize: The method Finalize() is slower as compared to Dispose().

# Performance

Dispose: The method Disposes() performs the instantaneous action hence, does not affect the performance of websites.

Finalize:

The method Finalize( ) being slower affects the performance of the websites.