Linq – Interview Questions

What is LINQ, and why is it useful when working with collections in .NET Core?

What is the difference between IEnumerable<T> and IQueryable<T> in the context of LINQ?

What are the key differences between Select() and SelectMany() in LINQ?

How do you filter data in a collection using LINQ? Provide an example using Where().

Explain the use of OrderBy(), OrderByDescending(), and ThenBy() in LINQ.

What is the difference between First(), FirstOrDefault(), Single(), and SingleOrDefault() in LINQ? When would you use each?

How can you combine multiple conditions in a LINQ query (using && and ||)? Provide an example with collections.

How does the GroupBy() method work in LINQ? Provide an example of grouping a collection.

What is the role of Aggregate() in LINQ, and how is it used with collections?