LINQ Day1 Lab

Using Console Application:

1- List<int> numbers = new List<int> { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };

```
Example 1: Filtering even numbers
```

Example 2: Filtering numbers greater than 5

Example 3: Filtering numbers less than or equal to 5

Example 4: Filtering odd numbers

Example 5: Filtering numbers between 3 and 7

2- Declare a class Subject that contains the following properties (Code, Name) and declare Student class that contains the following properties (ID, FirstName, LastName, Subject []), then define List of students As follow

```
List<Student> students = new List<Student>()
        new Student()
            ID=1,
            FirstName="Sara"
            LastName="Mohammed",
            Subjects=new Subject[]{
                new Subject(){ Code=22, Name="EF"},
                new Subject(){ Code=33,Name="UML"}}
        },
        new Student()
            ID=2,
            FirstName="Mona",
            LastName="Gala"
            Subjects=new Subject []
                new Subject(){ Code=22, Name="EF"},
                new Subject (){ Code=34, Name="XML"},
                new Subject (){ Code=25, Name="JS"}
            }
        },
```

```
new Student()
      ID=3,
      FirstName="Yara",
      LastName="Yousf",
      Subjects=new Subject []
          new Subject (){ Code=22, Name="EF"},
          new Subject (){ Code=25,Name="JS"}
  },
  new Student()
      ID=4,
      FirstName="Ali",
      LastName="Ali",
      Subjects=new Subject []
          new Subject ()
              Code=33, Name="UML"}
  },
  new Student()
      ID=5,
      FirstName="Ali",
      LastName="Ahmed",
      Subjects=new Subject[]{
          new Subject(){ Code=22, Name="EF"},
          new Subject(){ Code=33,Name="UML"}}
},
};
```

Example 1: Students with the first name "Ali"

Example 2: Students enrolled in the subject with code 22

Example 3: Students with the last name "Mohammed"

Example 4: Students with more than one subject