

# Session/Week 06

## .NET

" Every small step brings you closer to your goal!"

.Keep learning, keep growing —

### 1. Target:

#### a. Get know about:

- i. What is LINQ
- ii. Query Syntax vs Fluent Syntax
- iii. Element Operators
- iv. Data Partitioning
- v. TakeWhile and SkipWhile
- vi. GroupBy and how to iterate over groups
- vii. Quantifiers
- viii. Conversion Operators
- ix. Deferred Execution vs Immediate Execution
- x. Filtration using Where
- xi. Indexed overload of Where
- xii. Projection using `Select` and its indexed overload.
- xiii. SelectMany.

### 2. Resource:

#### a. Videos:

- i. [First Video](#)
- ii. [Second Video](#)

#### b. Documentation:

- i. [The Book](#)

### 3. Task:

- a. [LINQ Task](#)

## 4. Roles:

- a. Don't use AI like ChatGPT.
- b. Each question must be solved in a separate file or clearly separated region.
- c. All solutions must compile and run without errors.
- d. No loops allowed where LINQ is explicitly required.
- e. Add a comment above each query explaining what it does in one line.

## 5. Evaluation:

- a. **Rules applied** → 10 points
- b. **Q1** → 5 points
- c. **Q2** → 5 points
- d. **Q3** → 5 points
- e. **Q4** → 5 points
- f. **Q5** → 10 points
- g. **Q6** → 5 points
- h. **Q7** → 5 points
- i. **Q8** → 10 points
- j. **Q9** → 5 points
- k. **Q10** → 10 points
- l. **Q11** → 10 points
- m. **Q12** → 15 points
- n. **Total** → 100 points

## 6. Deadline:

- a. 7 Days #Friday \_ February 27 at 12PM

## 7. Submission:

- a. Upload the task in github and [Submit the Form](#)

## 8. Excuse:

- a. will be sent in the group.

*:Quote Time<:)*

Satisfy your soul, not society.