Compare and Union Two Collections

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Module Goals

- **Working with two collections**
- **Are collections equal**
- **Find values in one and not the other**
- **Find all values in common**
- **Combine two collections together**
  - **With dupes**
  - **No dupes**

Equality

SequenceEqual

Compares two collections for equality

Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

Use comparer class to check values in properties

Demo

- **SequenceEqual**
  - **Integers**
  - **References**

Demo

- SequenceEqual using a comparer class

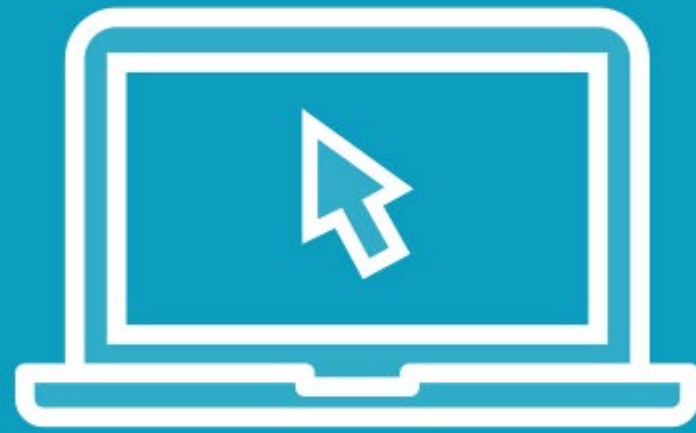# Exceptions

Except

Find all values in one list, but not the other

Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

Use comparer class to check values in properties

Demo

– **Except**

Intersection

Intersect

Find all values in common between both lists

Simple data types (int, decimal, etc.) – checks values

Object data types checks reference

Use comparer class to check values in properties
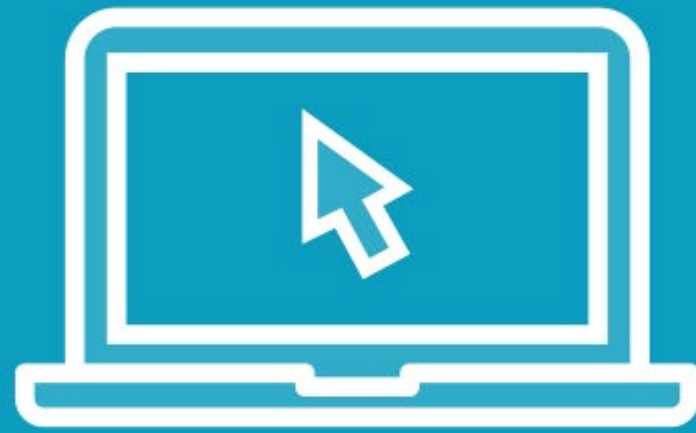
Demo

- **Intersect**

Union

Unions

Add the contents of two lists together

Union() checks for duplicates

Concat() does not check for duplicates

Use comparer class with objects

Demo

- **Union**

- **Concat**

Module Summary

- **Easy to compare values between two collections**

- **Simple data types = automatic checking**

- **Object data types = need a comparer class**

Up Next:
Joining Two Collections Together