Day06 Help.MD 2023-11-09

## Agenda

- Exception Handling
- Association
- Manipulators

### Exception Handling (demo01 and demo02)

- When we provide any wrong input to the program then the program may generate some errors or it
  may get crash.
- to avoid such errors or crashing of program we need to handle these errors.
- to handle these errors we use exception handling.
- to perform exception handling we use below 3 keywords

### 1. try

- It is used to look for the statements wether they are generating the exception or no.
- If exception is generated it will look for the matching catch block and will execute that catch block.
- If matching catch block is not found then the program will terminate by throwing the type of exception generated.
- Every try block should have atleast 1 catch block

#### 2. catch

- It is block which is used to handle the exception.
- we can write multiple catch blocks for a single try block.
- if we want to handle multiple exceptions inside single catch block we can write a generic catch block.
- If you want to keep normal and genric catch block then the generic catch block should be the last catch block of the series.

### 3. throw

It is used to generate an exception

## Association (has-a) (demo03)

- When has-a relationship exists between two entities/classes we use association
- eg
- Car has-a Engine
- Car has-a AudioSystem
- It is further classified into two types
- 1. Composition
  - If the entities are tightly coupled we use Composition
- 2. Aggegration
  - If the entities are loosely coupled we use Aggegration

# Manipulators (demo04)

- It is used to manipulate the output i.e to only change how the output looks and not the actual value.
- Two types of manipulators

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- 1. Without arguments (Parameterless)
- 2. With arguments (Parameterized)