Aufgabe 07.04.2025

Create a simple console application to manage shows for a TV broadcaster.

There are three types of shows: Series, Movie, and Documentary. All inherit from a shared base class called Show.

Requirements

1. Create a package named Models

2. Base class Show:

   o Properties:

     ▪ Title (string)

     ▪ DurationInMinutes (int)

     ▪ Genre (string, read-only → Getter-only)

   o Constructor with default values:
     Title = "Unknown", DurationInMinutes = 0, Genre = "General"

   o Method virtual void ShowInfo(): prints a formatted summary of the show

3. Derived classes Series, Movie, Documentary:

   o Override the ShowInfo() method and print specific output, e.g.,
     "Series: Breaking Bad, 45 minutes"

   o Set the genre accordingly

4. Main class Broadcaster inside a BroadcasterApp package:

   o Ask the user via console:

     ▪ What kind of show do you want to add? (Series / Movie / Documentary)

     ▪ Title and duration (in minutes)

   o Use exception handling (try-catch) when parsing integers

   o Add the show to a list List<Show>

   o After the user has entered 3 shows:

     ▪ Loop through the list using foreach

- Call the ShowInfo() method for each

Optional Extensions (if you want to practice more):

- Let the user choose whether to add a new show or remove an existing one

- When removing:

  - Ask for the genre and desired maximum duration

  - Show available options with index numbers

  - Let the user select one to remove from the list