

Blockbuster Lab

Task: Create your own blockbuster video. Movies will come in 2 different formats: VHS and DVD. The user should be able to rent a movie from a list of movies and watch it.

What will the application do?

- Create an abstract **Movie** class with the following:
 - A property for **Title** that's a string
 - A property for **Category** that's of Enum **Genre** - if we haven't covered this yet, just use a string
 - An int property for **RunTime** (in minutes)
 - A list of strings called **Scenes**
 - A virtual method called **PrintInfo()** that prints all properties in the class to the console save for the scenes.
 - A method called **PrintScenes()** that prints all the scenes in the list along with their index.
 - An abstract method with no return type called **Play()**
- Create an Enum named **Genre** with the following values (for the sake of simplicity assume each movie will only have one **Genre**) (Also if haven't learned enums yet just use strings) :
 - o **Drama**
 - o **Comedy**
 - o **Horror**
 - o **Romance**
 - o **Action**
- Next Create a child class of **Movie** called **VHS** and code the following:
 - A property called **CurrentTime**
 - A method called **Play()** that plays the scene at the current time and then increments **CurrentTime**.
 - A method called **Rewind()** that returns nothing and sets CurrentTime to 0.
- Create a child of **Movie** named **DVD** with the following code:
 - A method called **Play()** that takes no parameters and is void that will ask the user what scene they'd like to watch, print all the available scenes, and allow the user to select a scene from the list and print it out.
- Lastly, create a class named **Blockbuster** that contains the following code:
 - List<Movie> Movies** - this should contain at least 6 movies, 3 DVDs, 3 VHS all your choice
 - PrintMovies()** - this will print all the movie titles in the Movies list along with their indexes.
 - CheckOut()** - this will call **PrintMovies()** and ask the user which movie they'd like to check out, get an index from the user, select a movie from the list and **PrintInfo()** on that movie. The method should return the **Movie** object selected by the user.

Console Example:

Welcome to GC Blockbuster!

Please Select a Movie from the list:

- 1) Star Wars: the good one
- 2) Duck Tales
- 3) Whatever Marvel Nonsense
- 4) Saving Private Ryan
- 5) Duck Tales 2: Zack Quack has a bad day
- 6) Dora The Explorer: Swiper, yes Swiping!

Please select a movie you want to watch: {user input here, for example: 6 }

Dora The Explorer: Swiper, yes Swiping!

Category: Horror

Runtime: 92 minutes

Do you want to watch the movie? Y/N {user input here, for example: y }

Which Scene of the DVD Dora The Explorer: Swiper, yes Swiping!
would you like to watch? Select 0 to 5: {user input here, for example: 4}

Scene 4: Shrek Shows up

Watch another scene? {user input here, for example: n }

Bye!

Extended Exercise:

- Create a PlayWholeMovie in both VHS and DVDs to play each scene from start to finish.