HW:

- Create abstract class MediaContent
 - methods: play(), getDuration()
 - attributes: title, releaseYear, duration
- Create interface: Downloadable
 - methods: download()
- Class Movie (extends MediaContent, implements Downloadable)
 - attributes: Genre, Director
 - bonus: can you limit the number of acceptable Genres to Comedy and Action?
- class TVSeries (extends MediaContent, implements Downloadable)
 - attributes: seasons, episodesPerSeason

- class Documentary (extends MediaContent)
 - attributes: category, narrator
- Main class:
 - Create an array of MediaContent with items from all 3 classes
 - Loop through and call play() and getDuration() for each object
 - Use instanceof to check for Downloadable objects and if available, download it

```
if (media instanceof Downloadable) {
    ((Downloadable) media). download();
}
```

HW 2:

- Create a Zoo class with:
 - Abstract Class Animal
 - methods makeSound, getDiet
 - Interface Trainable
 - method performTrick
 - Class Mammal (extends Animal)
 - Attribute: furType
 - Implements methods from
 Animal with "generic mammal sound" and "omnivore"
 - Class Bird (extends Animal, implements Trainable)
 - attribute: wingspan (double)
 - getDiet, performTrick return "Insectivore" and "flying in circles!"

- Class Lion (extends Mammal)
 - makeSound, getDiet returns "Roar" and "Carnivore"
- Class Parrot (extends Bird)
 - makeSound, getDiet return "Squawk" and "Herbivore"
 - performTrick returns "the Parrot is mimicking sounds!"
- Main:
 - Create an Array of Lion, Parrot,
 Mammal, Bird
 - Loop through and print the results of calling makeSound, getDiet
 - Use instanceOf to call performTrick on Trainable objects