Exercise 3 (10 points) - can be done in pair or individually

- The first lines of all source files must be comments containing names & IDs of all members. Also create file readme.txt containing names & IDs of all members
- Put all files (source, input, readme.txt) in folder Ex3_xxx where xxx = ID of the group representative, i.e. your source files must be in package Ex3_xxx (assumedly in Maven's src/main/java). Input files must be read from this path
- The group representative zips Ex3_xxx & submits it to Google Classroom. The other members submit only readme.txt. Email submission is not accepted

1. Copy class FilmBase to your source file. This class must not be changed

- 2. Write classes LiveAction, and Animation that extend FileBase
 - LiveAction : add variables director and grossDollars
 - o Animation : add variable lengthMinutes
 - o Other variables and methods can be added to these class
- 3. Write another class that acts as the main class. In main method,
 - 3.1 Create an array of 10 FilmBase objects, e.g. FilmBase [] FB
 - 3.2 Read each line of input file into FB[i]. For each line, the type of FB[i] may be LiveAction or Animation object depending on the input
 - o Column 1 = type (L = LiveAction, A = Animation)
 - Column 2 = name
 - Column 3 = age
 - Column 4 = director (for LiveAction) or length in minutes (for Animation)
 - Column 5 = opening weekend gross in million USD (for LiveAction)

```
allFilms - Notepad
File Edit Format View Help
L, Aladdin,
             4, Guy Ritchie, 91
L, Cruella,
                    2, Craig Gillespie, 21
                    13, 95
A, Despicable Me,
                    10, 102
A, Frozen,
L, Ghost Rider,
                     16, Mark Steven Johnson, 45
L, Inspector Gadget, 24, David Kellogg, 21
A, Ratatouille,
                     16, 111
                     11, Joss Whedon, 207
L, The Avengers,
A, The Incredibles,
                    19, 115
A, Zootopia,
                     7, 108
```

Note 1 - Read the whole line into string (e.g. line)
and split it at comma. Trim spaces before converting
string to number; otherwise, you'll get runtime
exception
 String line = scan.nextLine();
 String [] buf = line.split(",");
 int age = Integer.parseInt(buf[2].trim());

Note 2 - Use equals or equalsIgnoreCase to compare
strings

if (type.equals("A")) // creat Animation

- 3.3 Apply the following calculation
 - o For both types of objects, calculate release year from age
 - o For LiveAction, convert opening gross from USD to THB; 1 USD = 35 THB
 - For Animation, convert length from minutes to hours & minutes
- 3.4 Print both LiveAction and Animation in the reverse order of the input
- 3.5 Print only LiveAction in the original order
- 3.6 Print only Animation in the original order

exec-maven-plugin:3.0	.0:exec (default-cli)	@ solutions	
=== Both types of films (reverse order) ===		
Zootopia (2016)	1 hrs, 48 mins		
The Incredibles (2004)	1 hrs, 55 mins		
The Avengers (2012)		director = Joss Whedon	opening gross = 7,245 million THB
Ratatouille (2007)	1 hrs, 51 mins		
Inspector Gadget (1999)		director = David Kellogg	opening gross = 735 million THB
Ghost Rider (2007)		director = Mark Steven Johnson	opening gross = 1,575 million THB
Frozen (2013)	1 hrs, 42 mins		
Despicable Me (2010)	1 hrs, 35 mins		
Cruella (2021)		director = Craig Gillespie	opening gross = 735 million THB
Aladdin (2019)		director = Guy Ritchie	opening gross = 3,185 million THB
=== Only live action films ===			
Aladdin (2019)		director = Guy Ritchie	opening gross = 3,185 million THB
Cruella (2021)		director = Craig Gillespie	opening gross = 735 million THB
Ghost Rider (2007)		director = Mark Steven Johnson	opening gross = 1,575 million THB
Inspector Gadget (1999)		director = David Kellogg	opening gross = 735 million THB
The Avengers (2012)		director = Joss Whedon	opening gross = 7,245 million THB
=== Only animation films ===			
Despicable Me (2010)	1 hrs, 35 mins		
Frozen (2013)	1 hrs, 42 mins		
Ratatouille (2007)	1 hrs, 51 mins		
The Incredibles (2004)	1 hrs, 55 mins		
Zootopia (2016)	1 hrs, 48 mins		
BUILD SUCCESS			