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Big Data System Engineering with Scala Spring 2023 Assignment No. 3



- List of Tasks Implemented:

- 1) Implemented the parse method to create Movie objects from a csv string.
- 2) Implemented the elements method which mapped the sequence of string to the indices.
- 3) Implemented the apply method for the companion object of the Ratings class that creates Rating objects from a string.
- 4) Completed the test case to the functionality of class Ingest for parsing integers from a source of characters

Github Repo:

https://github.com/sayeedahmed01/CSYE7200/tree/Spring2022/assignment-movie-database

Code:

1)

```
# Robin Hillyard*
implicit object ParsableMovie extends Parsable[Movie] {

/**
    * Method to yield a Try[Movie] from a String representing a line of input of the movie database file.

    *
    * TODO 11 points.
    *
    * @param w a line of input.
    * @return a Try[Movie]

    */
    new*

def parse(w: String): Try[Movie] = Try{
    Movie(w.split([regex = ]",").toSeq)
}
}
```

2)

```
def elements(list: Seq[String], indices: Int*): List[String] = {
    // Hint: form a new list which is consisted by the elements in list in position indices. Int* means array of Int.
    // 6 points
    val result: Seq[String] = indices.map(list(_))
    result.toList
}
```

3)

```
Jobject Rating {
    // Hint: This regex matches three patterns: (\w*), (-(\d\d)), (\d\d), for example "PG-13", the first one matches val rRating = """^(\w*)(-(\d\d))?$""".r

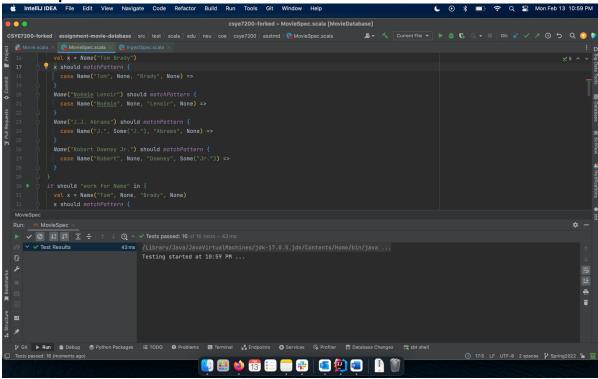
/**
    * Alternative apply method for the Rating class such that a single String is decoded
    *
     * @param s a String made up of a code, optionally followed by a dash and a number, e.g. "R" or "PG-13"
     * @return a Rating
     */
     new"

def apply(s: String): Rating = s match{
     case rRating(code, _, age) => Rating(code, Option(age).map((_.toInt)))
     case rRating(code,_, null) => Rating(code,None)
     case _ => throw ParseException(s"parse error in Rating: $s")
}
```

4)

- Unit Tests:

1) MovieSpec.scala:



2) IngestSpec.scala:

