Q4

**DESCRIPTION**

Complete the classes using the Specifications given below. Consider default visibility of classes, data fields, and methods unless mentioned otherwise.

**Specifications**

class definitions:﻿

class Rating:

data members:

int imdbRating

int nominee

Rating(int imdbRating, int nominee): constructor **with** **public** visibility

**class** Validator:

method definitions:

canBeConsideredForTheAward(Rating rating) throws **Exception**:

**return** **type**: **String**

visibility: **public**

﻿

sendInvite(Rating rating) throws **Exception**:

**return** **type**: **String**

visibility: **public**

﻿

**class** MovieRatingException:

method definitions:

MovieRatingException(**String** msg)

visibility: **public** ﻿

**Task**

Class **Rating**

**-**define the **int**variable **imdbRating.**

**-**define the **int** variable **nominee**

**-**define a **constructor** according to the above specifications.

Class **Validator**

**Implement the below methods for this class:**

**-String** **canBeConsideredForTheAward(Rating rating) throws Exception:**

* Write a code to validate the criteria for getting the award.
* **throw a MovieRatingException**if **imdbRating** is less than **7**with the message "**Movie not eligible for Filmfare award**".
* **throw a MovieRatingException**if **nominee** is less than **4** with the message "**Minimum 4 nominee required**".
* If no above exception found then return a string message "**Considered for the award**".

**-String sendInvite(Rating rating):**

* Write a code to send an invite to the nominee.
* If **canBeConsideredForTheAward** method throws a **MovieRatingException** then return a message "**Not invited**".(Use try-catch block)
* If it throws any other exception then return a message "**other exception**".
* If no exception found then return a message "**Actors and Directors Invited**".

**Sample Input**

Rating rating = **new** Rating(9, 7);

Validator v = **new** Validator();

------------------------------------------------------

String s = v.canBeConsideredForTheAward(rating);

String t = v.sendInvite(rating);

s.toLowerCase();

t.toLowerCase();

**Sample Output**

considered **for** the award

actors **and** directors invited

**NOTE:**

* You can make suitable function calls and use **the RUN CODE** button to check your **main()** method output.

**ALLOWED TECHNOLOGIES**

* Java 8

**TAGS**

* Exception Handling

**Code :**

//DOSELECT Problem Statement 4

//Class Rating

**package** CAPG;

**public** **class** Rating {

**int** imdbRating;

**int** nominee;

**public** Rating(**int** imdbRating, **int** nominee) {

**super**();

**this**.imdbRating = imdbRating;

**this**.nominee = nominee;

}

}

//DOSELECT Problem Statement 4

//Class Validator

**package** CAPG;

**public** **class** Validator {

**public** String canBeConsideredForTheAward(Rating rating) **throws** Exception{

**if**(rating.imdbRating < 7) {

**throw** **new** MovieRatingException("Movie not eligible for Filmfare award");

}

**else** **if**(rating.nominee < 4) {

**throw** **new** MovieRatingException("Minimum 4 nominee required");

}

**else** {

**return** "Considered for the award";

}

}

**public** String sendInvite(Rating rating) **throws** Exception{

**try** {

canBeConsideredForTheAward(rating);

}

**catch**(MovieRatingException e1){

**return** "Not invited";

}

**catch**(Exception e){

**return** "Other exception";

}

**return** "Actors and Directors Invited";

}

}

//DOSELECT Problem Statement 4

//Class MovieRatingException

**package** CAPG;

**public** **class** MovieRatingException **extends** Exception{

**public** MovieRatingException(String msg) {

**super**(msg);

}

}

//DOSELECT Problem Statement 4

//Class Main

**package** CAPG;

**public** **class** Rating\_Main {

**public** **static** **void** main(String[] args) **throws** Exception{

Rating rating = **new** Rating(9, 7);

Validator v = **new** Validator();

String s = v.canBeConsideredForTheAward(rating);

String t = v.sendInvite(rating);

System.***out***.println(s.toLowerCase());

System.***out***.println(t.toLowerCase());

}

}

**Output :**

