

Ahsanullah University of Science and Technology
Course Title: Object Oriented Programming Lab
Course Number: CSE1206
FALL 2020 – SET B – EVEN ID

Online Date: 22 September, 2021 Group: C2 Time: 55 minutes

Suppose you want to enroll for an online course. In order to do so you have to provide your email id and age. If the email id and age are not valid then the program throws exceptions. Create a project named EnrollingStudents.	Marks
<p>Create another package named validationexceptions .</p> <p>Inside this package create two custom exception classes.</p> <ol style="list-style-type: none"> 1) InvalidEmailException (checked exception) 2) NotAcceptableAgeException (unchecked exception) <p>Both classes should override the constructor that takes a String parameter.</p>	4
<p>Inside the project generated package:</p> <p>Create an interface named Validation, in which there will be two void methods</p> <ol style="list-style-type: none"> 1) validateEmail() which takes email id as String parameter. 2) validateAge() which takes age as integer parameter. <p>Here, 1st method throws InvalidEmailException and 2nd method throws NotAcceptableAgeException</p>	2
<p>Create a class named Enroll which implements the features of Validation interface. Here, email and age is validated as follows:</p> <ol style="list-style-type: none"> 1) If email has "@" and ends with ".com" then it is valid. Otherwise it gives InvalidEmailException. 2) If age is less than 18 then it gives exception having the statement "Too Young to enroll" and if age is 35 gives exception with statement "Too old to enroll". Otherwise the age is valid. Here, the exception is NotAcceptableAgeException. 	6
<p>Create a class named Student which extends Enroll class. Here create a method void Upload(String filename).</p> <p>A student can only upload (.zip) files with ids starting with (180204/180104/170204). If filename is anything apart from this then it throws IllegalArgumentException.</p> <p>IllegalArgumentException is a built-in checked exception.</p>	3
<p>In the main method create object of Student and call the 3 methods validateEmail(), validateAge(), Upload(). You must handle all three exceptions in the main method. Take user input.</p>	5

You can use the String method called `endsWith()`, `beginWith()` or `contains()` to check the Strings

For example:

```
String str = "java lab online";
```

```
if (str.startsWith("jav")) {  
    System.out.println("ja");  
}
```

```
if (str.endsWith("online")) {  
    System.out.println("online");  
}
```

```
if (str.contains("lab")) {  
    System.out.println("lab");  
}
```