CSE1206 : Object Oriented Programming Lab Fall 2018	Set- B

Online: 5   Date: 11th April, 2019   Group: C1   Time: 30 minutes

	Marks
An Editor can open some specific file types of files like - .png/ .jpeg/ .mp4/ .wmv etc A PhotoEditor can only open .png/.jpeg files. (That is, only Image files). It prints "Photo Editor is editing <FileName>" when it is passed a file to open. Here <FileName> is the file passed to PhotoEditor as a String. A VideoEditor can only open .mp4/ .wmv files. (That is, only video files). It prints "Video Editor is editing <FileName>" when it is passed a file to open. Here <FileName> is the file passed to VideoEditor as a String. Now if any other files except the ones they support are passed to these applications then they will throw user defined exception called FileCannotBeEditedException.	
Task:	
1. Create the user defined Exception: FileCannotBeEditedException class which overrides the toString() method passing the file format and returns: "<fileformat> Cannot be Edited". You can use a constructor which will take the string fileformat as parameter.	3

2. Create an Interface named Editor which will have a method named Edit(String format) and will throw the user defined exception.
 	
`while declaring the function in interface, you can write it like this:`
 	
`public void doThisJob() throws XException, YException;`
	2

3. Create the classes PhotoEditor and VideoEditor and design them accordingly. You will need to use String endsWith() method to identify the file extensions.	6

4. Write a main function to demonstrate the functionalities. In main, develop an object of "PhotoEditor", "VideoEditor" and call the method Edit() using a file named with extension for each of the object.
    You must handle the exceptions where it is needed.
 	
    You can pass these Strings: Online5.png , Online5.jpeg , Online5.mp4, Online5.wmv
	4

Total:	**15**

Demo code of using endsWith method
 	
``java
String str = "Online5.doc";
if(str.endsWith(".doc")) {
     System.out.println("ends with .doc");
}
``	