**Lab Assignment - 11 (Group Assignment)  
Due Date: Dec 10th(Wednesday), 11.59 pm**

**You could work in groups of up to 3 students each. *Any one student from each group would submit the work by the due date in blackboard.***

**Chapter 10:**

1. Work on 10.10.2 (questions 12 through 20). Reading and Understanding Code (pages 723 – 725) ( 30 points)

**Chapter 11:**

1. Work on questions 16 through 19 (pages 800 – 802). *Please make sure to read the instructions on data.txt before question 16 on page 800.* ( 20 points)
2. Modify the third programming exercise (which involves reading grades from a text file grades.txt and calculating the various statistics) you worked on in Lab Assignment – 7 to include handlers for different type of exceptions that are possible in that program. (20 points)

1. Work on Programming exercise # 61 on page 815.   
   Apart from the instructions in this programming exercise in the book, include code to write the output of toString() method for each of the five Home objects to a file named “output.txt”.

*Hint:* First you would need to design and implement a user defined class called CarPlate and provide appropriate attributes based on the descriptions, provide get, set, toString() and   
equals( ) methods. Next create a client program called CarPlateTest with the main( ) method where you will create 3 CarPlate Objects. You can use your choice of values to initialize the instance variables of these objects. Next you will write these objects to a binary file and followed by code to read the objects that you just wrote to the file back into the program. Finally you will write the output of the toString( ) methods to print the contents of the 3 CarPlate objects to text file – “output.txt”

(30 points)

**Things to submit:**

* Type the names of all the students along with assignment # at the top of the word document
* Type the answers to the questions for exercise I and II.
* Copy the source code along with outputs of the program in exercise III.
  + When there is no exception generated
  + When there is FileNotFoundException
* Zip the contents of exercise III project folder
* Copy the source code of the user defined class along with client program along with contents of the output.txt file (Please note you are not required to include the binary file to which you wrote the objects). Finally include the output of the of client program
* Zip the contents of NetBeans project folder.