Day 4: Lab assignment on IO and Exception Handling

- 1) Write a program to Read from file in byte format and Write to command prompt in both byte format and using formatted output(System.out.print or println)
- 2) Write a program to Read from command prompt using character buffer and Write to a file using character
- 3) Write a program to serialize and deserialize an object of Employee class. Employee class has the following members.

BankAccount
String name,id; Address address;
double salary; (nonserializable)
void display()

4) Write a program that will prompt user to input a number or enter -1 to quit the program. You will then read the value using the nextInt() method of Scanner object and display if the number is even or odd. If user enters anything other than integer number. nextInt() method will throw InputMismatchException. You have to catch the exception and display a message saying "You must enter an integer".

Sample output:

-1

[Your program will end here]

"Please enter a number or enter '-1' if you want to quit" "You have entered an odd number" "Please enter a number or enter '-1' if you want to guit" "You have entered an even number" "Please enter a number or enter '-1' if you want to guit" "You must enter an integer." "Please enter a number or enter '-1' if you want to quit" "You must enter an integer." "Please enter a number or enter '-1' if you want to guit"

5) Modify the code to throw an Exception if the number is greater than 100, set the exception message to "Number can't be greater than 100". Catch the Exception and display the exception message.

- 6) Now create your own exception named "InputException" which will take an integer (let's say n) as parameter and set the exception message to "Number can't be greater than [n]". Modify the program in #1 to throw InputException when the number is greater than 100. So, the exception message will be "Number can't be greater than 100". Catch the exception and display the exception message.
- 7) Create a class and a method named *throwException* which will throw 2 exceptions 1) InputException and 2) IOExcception. Now from the main method call this throwException method; notice what the IDE suggest to fix the error. Choose the try/catch solution. How many catch blocks have been added and why?