## Lab #3:

# Exception Handling

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| **Topic** | Exception Handling |
| **Domain of Learning** | Psychomotor (P1: Perception; P2: Set; P3: Guided Respond; P4: Mechanism) |
| **Learning objective** | 1. To evaluate the program are able to execute correctly. (P1)<br>2. To evaluate the response in order to solve the problem as required. (P2)<br>3. To evaluate the skill how the program is developed whereas using the code correctly in order to meet requirement. (P3)<br>4. To evaluate the understanding of requirement and creativity skill in development. (P4) |
| **Lab activity objective** | To develop the program using the JAVA language in object-oriented approach (using class and method) |
| **Instruction** | Provide the possible solution for given exercise by GROUP (2/3 members).<br><br>Submission of Lab #3 exercise must contain the following items<br>**Softcopy**<br>1. Full lab assignment report in PDF<br>2. Full coding for each solution<br>1. Assessment form (see attachment A)<br><br>Please adhere to the regulation stated. |
| | **No Mark for late Submission.** |

# LAB 3:

1. Identify what type of exception occur in the program codes below and provide them with a proper exception handler:

```
class ListOfNumbers {

  private int[] list = {5, 6, 8, 9, 2};

  public void writeList() {

       for (int i = 0; i < 7; i++) {
         System.out.println("Value at: " + i + " = " + list[i]);
       }
  }
  public static void main(String[] args) {
          ListOfNumbers list = new ListOfNumbers();
          list.writeList();
        }
}
```

2. By using `try..catch` blocks, provide exceptions handler for the codes below to handle an attempt to divide an integer by zero and mismatch value entered by user (eg. user enters the string "hello").

```
import java.util.Scanner;

public class NoExceptionExample {
      public static void main(String args[]){
            Scanner input = new Scanner(System.in);
            System.out.println("enter two numbers:");
            int num1 = input.nextInt();
            int num2 = input.nextInt();

            int result= num1/num2;

            System.out.println("Hello!!");
            System.out.printf("Result: %d / %d = %d%n", num1, num2,
                                    result);
      }
}
```