SKIP2103 Advanced Programming
Exercises – Exception Handling

1. a) Write the output of the following Java program.

```
public class ExTestDrive {

    public static void main(String[] args) {
        String test = "yes";
        try {
            System.out.print("t");
            doRisky(test);
            System.out.print("o");
        } catch (IllegalArgumentException e) {
            System.out.print("a");
        } finally {
            System.out.print("w");
        }
        System.out.println("s");
    }

    static void doRisky(String t) throws IllegalArgumentException {
        System.out.print("h");
        if ("yes".equals(t)) {
            throw new IllegalArgumentException();
        }
        System.out.print("r");
    }
}
```

b) What is the output if the variable test is assigned with the value of “No” ?

2. Rewrite the program below so that it can handle the potential exception that can be thrown. The program must also able to repeat reading the input until there is no more exception.

```
import javax.swing.JOptionPane;

public class ExTestDrive {

 public static void main(String[] args) {
   String ageS = JOptionPane.showInputDialog("Enter your age:");
   int age = Integer.parseInt(ageS);
   if ((age > 25) && (age < 50)) {
     JOptionPane.showMessageDialog(null, "Congrats. You can apply for
the loan.");
   } else {
            JOptionPane.showMessageDialog(null, "Sorry. You are not
qualified.");
   }
 }
}
```

3. What is the output of the following codes?

a)

```
public class Main {
    public static void main(String[] args) {
        try {
            throw new Exception("An error occurred.");
        } catch (Exception e) {
            System.out.println(e.getMessage());
        } catch (NullPointerException e) {
            System.out.println("NullPointerException occurred.");
        } finally {
            System.out.println("Finally block.");
        }
    }
}
```

b)

```
public class MyException extends Exception {
    public MyException(String message) {
        super(message);
    }
}

public class Main {
    public static void main(String[] args) throws Exception {
        try {
            throw new MyException("An error occurred.");
        } catch (Exception e) {
            throw e;
        } finally {
            System.out.println("Finally block.");
        }
    }
}
```