Day 3

Question 1

Guessing Game Program - Write a program to:

- Generate a random number.

```
// Generate a random number
import java.util.Random;

Random random = new Random();
int n = random.nextInt(10);
```

- Ask a user to input a number.

- Check if the input number is equal to the random number.

- Repeat until the user enters a correct number.

- Print the total incorrect attempts by user.

- Use try-catch to handle the exceptions like invalid inputs of string, decimal, etc.

Question 2

```java
public class Test {

    public static void main(String[] args) {
        boolean isLoginSuccess = isLoginSuccessful("admin", "admin");
        System.out.println("Login Success with admin & admin: " + isLoginSuccess);

        isLoginSuccess = isLoginSuccessful("superman", "superman");
        System.out.println("Login Success with superman & superman: " + isLoginSuccess);
    }

    public static boolean isLoginSuccessful(String username, String password) {

        if (username == null || password == null) {
            return false;
        }
        if (username.equals("admin") && password.equals("admin")) {
            return true;
        }

        return false;
    }
}
```

- The above code is the sample login program that checks whether the login is successful or not.

- The method **isLoginSuccessful** returns true if the username and password both are admin else it returns false. The main method prints the result returned from this method as it returns Boolean value.

- Now, modify the above code in such a way that the method isLoginSuccessful has return type void but still the main method knows if the login is successful or not. *(You have to call the isLoginSucessful method with username and passwords as parameters from the main method like the above code. The isLoginSucessful does not return anything but the main method still determines the login is successful or not.)*

- You have to modify the main method also accordingly.

```java
// Replacing the boolean by void
public static void isLoginSuccessful(String username, String password) {
    your codes here …
}
```