ASSIGNMENT– 5

*[Submit your complete work **within the due date and time** as indicated in the CLEW]*

Objectiv: Working with GUI programming.

Write an application that plays "***Guess the Number"*** game as follows:

Your application chooses the number to be guessed by selecting an integer at random in the range 1–1000. The application then displays the following in a **`label`**:

> **I have a number between 1 and 1000.**
> **Can you guess my number? Please enter your guess:**

A **`JTextField`** should be used to input the guess. (The user types a number and press <Enter>).
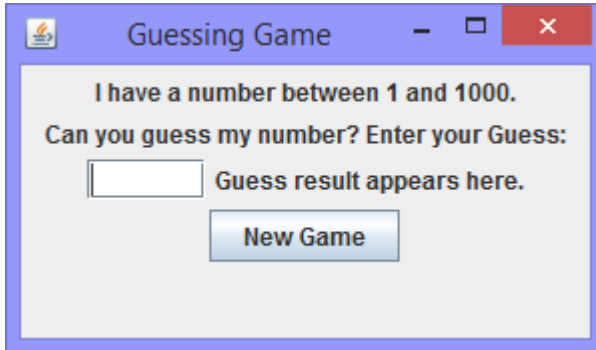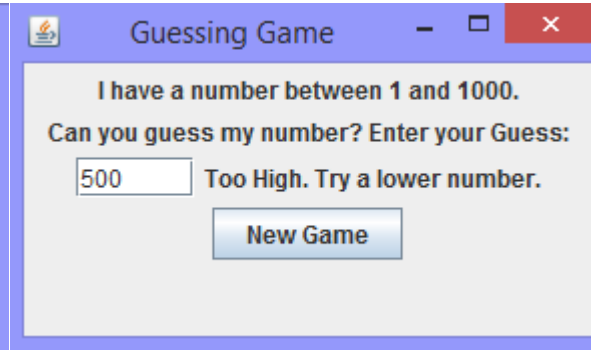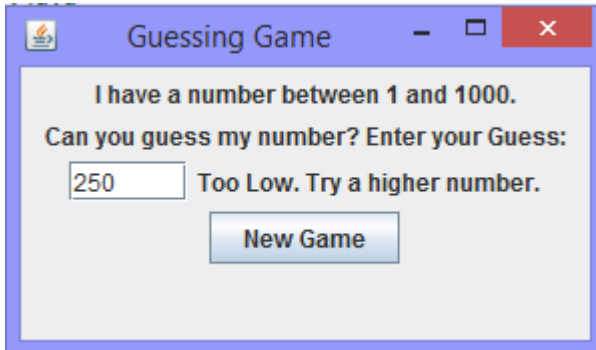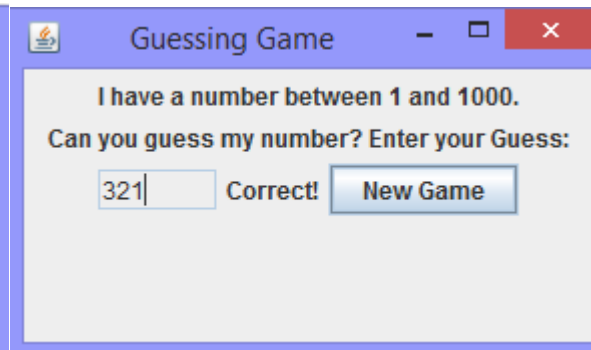
A **JLabel** should display either ***Too High*** or ***Too Low*** to help the user zero in on the correct answer. When the user gets the correct answer, ***Correct!*** should be displayed, and the **`JTextField`** used for input should be changed to be uneditable.

A **`JButton`** should be provided to allow the user to play the game again. When the **`JButton`** is clicked, a new random number should be generated and the input **`JTextField`** changed to be editable.

The program template has been provided that represents a complete working Java program, with one or more key lines of code replaced with comments. Read the problem description and examine the sample output; then study the template code.

Using the problem-solving tips as a guide, replace the **`/***** TODO *******/`** comments with Java code. Compile and execute the test program (given). Compare your output with the sample output below.

Sample Output:

Guessing Game

I have a number between 1 and 1000.
Can you guess my number? Enter your Guess:

[   ] Guess result appears here.

New Game

Guessing Game

I have a number between 1 and 1000.
Can you guess my number? Enter your Guess:

[500] Too High. Try a lower number.

New Game

Guessing Game

I have a number between 1 and 1000.
Can you guess my number? Enter your Guess:

[250] Too Low. Try a higher number.

New Game

Guessing Game

I have a number between 1 and 1000.
Can you guess my number? Enter your Guess:

[321] Correct! New Game