

Intro Obj Oriented Prog-Java

Assignment 3.

Group 19 Members

Sam Otitoomah Cherish

Hediyeh Sedaghat

Vasu Rajayavardhan

MAIN JAVA FILE

CODE:

```
package hw3;
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
public class SimpleGame extends Application {

    private int score;
    private static int highScore;

    public SimpleGame() {
        score = 0;
    }

    public static void main(String[] args) {
        launch(args);
    }
}
```

```

@Override
public void start(Stage primaryStage) {
    primaryStage.setTitle("Simple Game");

    Label guessLabel = new Label("Enter your guess (1-10): ");
    TextField guessTextField = new TextField();
    Button guessButton = new Button("Guess");
    Label resultLabel = new Label();
    Label playAgainLabel = new Label("Do you want to play again? (yes/no): ");
    TextField playAgainTextField = new TextField();
    Button playAgainButton = new Button("Play Again");
    Label finalScoreLabel = new Label();

    guessButton.setOnAction(e-> {
        int guess = Integer.parseInt(guessTextField.getText());
        int randomNumber = (int) (Math.random() * 10) + 1;

        if (guess == randomNumber) {
            resultLabel.setText("Congratulations! You guessed it right!");
            score++;
        } else {
            resultLabel.setText("Sorry, wrong guess. The number was: " +
randomNumber);
        }
    });

    playAgainButton.setOnAction(e-> {
        String playAgainInput = playAgainTextField.getText();
        if (playAgainInput.equalsIgnoreCase("yes")) {
            guessTextField.clear();
            resultLabel.setText("");
            playAgainTextField.clear();
            playGame();
        } else {

```

```

        primaryStage.close();
    }
});

VBox layout = new VBox(10);
layout.getChildren().addAll(guessLabel, guessTextField, guessButton,
resultLabel,
    playAgainLabel, playAgainTextField, playAgainButton, finalScoreLabel);

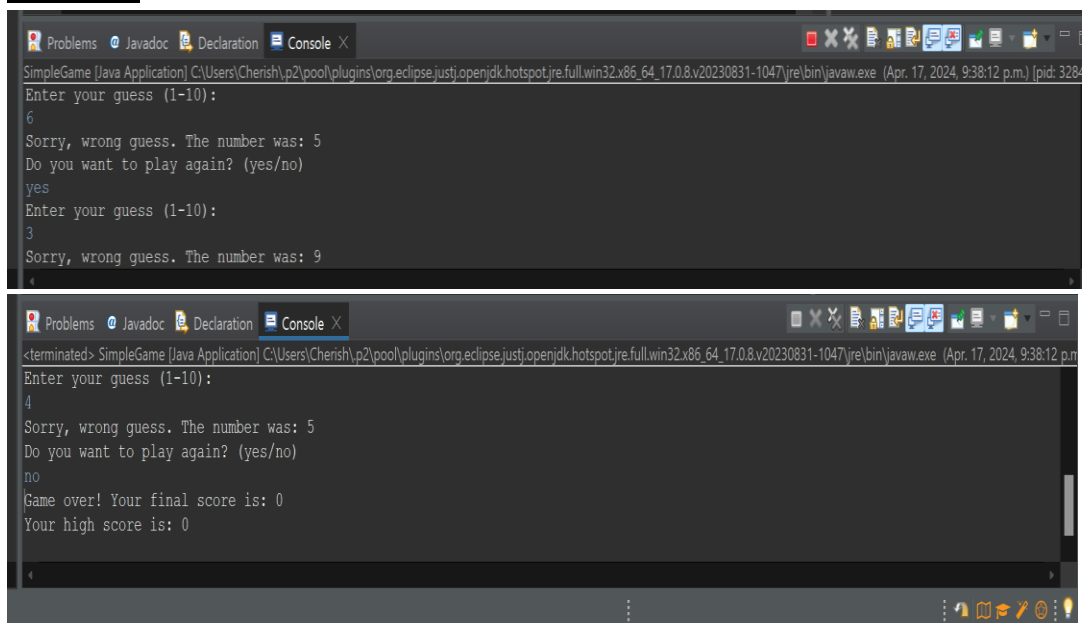
Scene scene = new Scene(layout, 300, 250);
primaryStage.setScene(scene);
primaryStage.show();

playGame();
}

public void playGame() {
    score = 0;
}
}

```

RESULT:



```

SimpleGame [Java Application] C:\Users\Cherish\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.8.v20230831-1047\jre\bin\javaw.exe (Apr. 17, 2024, 9:38:12 p.m.) [pid: 3284]
Enter your guess (1-10):
6
Sorry, wrong guess. The number was: 5
Do you want to play again? (yes/no)
yes
Enter your guess (1-10):
3
Sorry, wrong guess. The number was: 9
4

<terminated> SimpleGame [Java Application] C:\Users\Cherish\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.8.v20230831-1047\jre\bin\javaw.exe (Apr. 17, 2024, 9:38:12 p.m.)
Enter your guess (1-10):
4
Sorry, wrong guess. The number was: 5
Do you want to play again? (yes/no)
no
Game over! Your final score is: 0
Your high score is: 0

```