

-----CODE 1-----

```
import java.util.Scanner;
import java.util.Random;

public class NumberGuessingGame {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Random random = new Random();
        int totalScore = 0;
        boolean playAgain = true;

        System.out.println("Welcome to the Number Guessing Game!");
        System.out.println("Rules:");
        System.out.println("1. Guess the number within the range provided.");
        System.out.println("2. You have a limited number of attempts.");
        System.out.println("3. Score points by guessing correctly with fewer attempts.");

        while (playAgain) {
            // Game settings
            int lowerBound = 1;
            int upperBound = 100;
            int attemptsAllowed = 7;
            int secretNumber = random.nextInt(upperBound - lowerBound + 1) + lowerBound;
            int attemptsTaken = 0;
            boolean guessedCorrectly = false;

            System.out.println("\nA new round has started!");
            System.out.println("Guess the number between " + lowerBound + " and " + upperBound +
                ".");
            System.out.println("You have " + attemptsAllowed + " attempts.");
```

```

while (attemptsTaken < attemptsAllowed) {

    System.out.print("Enter your guess: ");

    int userGuess = scanner.nextInt();

    attemptsTaken++;

    if (userGuess == secretNumber) {

        System.out.println("Congratulations! You guessed the correct number.");

        guessedCorrectly = true;

        totalScore += (attemptsAllowed - attemptsTaken + 1); // Higher score for fewer
attempts

        break;

    } else if (userGuess < secretNumber) {

        System.out.println("Too low! Try again.");

    } else {

        System.out.println("Too high! Try again.");

    }

}

if (!guessedCorrectly) {

    System.out.println("Sorry, you've run out of attempts. The correct number was " +
secretNumber + ".");

}

System.out.println("Your current score is: " + totalScore);

System.out.print("Do you want to play another round? (yes/no): ");

String response = scanner.next();

playAgain = response.equalsIgnoreCase("yes");

}

System.out.println("\nGame over! Your final score is: " + totalScore);

System.out.println("Thank you for playing!");

scanner.close();

```

}

}