**Task-1**

**Code:**

import java.util.Scanner;

public class GuessingGame {

public static void main(String[] args)

{

System.out.println("Let's play a game. I'll pick a number between");

System.out.println("1 and 100, and you try to guess it.");

Scanner sc1 = new Scanner(System.in);

boolean playAgain;

do {

playGame(); // call subroutine to play one game

System.out.println("Would you like to play again?Y/N");

playAgain = sc1.nextBoolean();

} while (playAgain);

System.out.println("Thanks for playing.Goodbye.");

}

static void playGame() {

int computersNumber;

int usersGuess;

int guessCount;

computersNumber = (int)(100 \* Math.random()) + 1;

guessCount = 0;

System.out.println();

System.out.println("What is your first guess?");

Scanner sc= new Scanner(System.in);

while (true) {

usersGuess = sc.nextInt();

guessCount++;

if (usersGuess == computersNumber) {

System.out.println("You got it in " + guessCount

+ " guesses! My number was " + computersNumber);

break;

}

if (guessCount == 6) {

System.out.println("You didn't get the number in 6 guesses.");

System.out.println("You lose. My number was " + computersNumber);

break;

}

if (usersGuess < computersNumber)

System.out.println("That's too low. Try again:");

else if (usersGuess > computersNumber)

System.out.println("That's too high. Try again:");

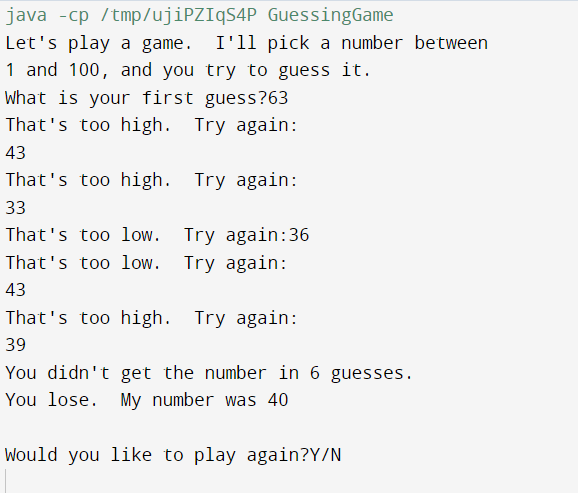
}

System.out.println();

}

}

**Output:**

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