

## **TASK 1) NUMBER GAME**

```
import java.util.Scanner;
import java.util.Random;
public class SimpleGuessGame {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        Random rand = new Random();
        int maxAttempts = 5;
        String playAgain;
        do {
            int number = rand.nextInt(100) + 1;
            int attempts = 0;
            boolean correct = false;
            System.out.println("🎯 Guess a number between 1 and 100!");
            while (attempts < maxAttempts) {
                System.out.print("Enter your guess: ");
                int guess = input.nextInt();
                attempts++;
                if (guess == number) {
                    System.out.println("You guessed it right!");
                    correct = true;
                    break;
                } else if (guess < number) {
                    System.out.println("📉 Too low!");
                } else {
                    System.out.println("📈 Too high!");
                }
            }
        }
    }
}
```

```
if (!correct) {  
    System.out.println(" Out of attempts! The number was: " + number);  
}  
System.out.print("Do you want to play again? (yes/no): ");  
playAgain = input.next().toLowerCase();  
} while (playAgain.equals("yes"));  
System.out.println("👋 Thanks for playing!");  
input.close();  
}  
}
```

## OUTPUT :-

```
C:\1348>javac SimpleGuessGame.java  
  
C:\1348>java SimpleGuessGame  
? Guess a number between 1 and 100!  
Enter your guess: 46  
? Too low!  
Enter your guess: 56  
? Too high!  
Enter your guess: 50  
You guessed it right!  
Do you want to play again? (yes/no): no  
? Thanks for playing!
```