

Oasis Infobyte

TASK 2:

```
import java.util.Random;

import java.util.Scanner;

public class Main{

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        Random random = new Random();

        int minNumber = 1;

        int maxNumber = 100;

        int totalAttempts = 5;

        int rounds = 3;

        int score = 0;


        System.out.println("Welcome to the Number Guessing Game!");

        System.out.println("You have " + totalAttempts + " attempts to guess the number.");

        System.out.println("Let's get started!\n");


        for (int round = 1; round <= rounds; round++) {

            int targetNumber = random.nextInt(maxNumber - minNumber + 1) + minNumber;
```

```
int attemptsLeft = totalAttempts;
```

```
System.out.println("Round " + round + " - Guess a number  
between " + minNumber + " and " + maxNumber + ".");
```

```
while (attemptsLeft > 0) {
```

```
    System.out.print("Attempts left: " + attemptsLeft + ". Enter  
your guess: ");
```

```
    int guess = scanner.nextInt();
```

```
    if (guess == targetNumber) {
```

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

```
        int roundScore = attemptsLeft * 10; // Give points based  
on the number of attempts left
```

```
        score += roundScore;
```

```
        System.out.println("Round " + round + " score: " +  
roundScore);
```

```
        break;
```

```
    } else if (guess < targetNumber) {
```

```
        System.out.println("The number is higher than your  
guess.");
```

```
    } else {
```

```
        System.out.println("The number is lower than your  
guess.");
```

```
    }
```

```
        attemptsLeft--;  
    }  
  
    if (attemptsLeft == 0) {  
        System.out.println("Round " + round + " - Game Over. The  
number was: " + targetNumber);  
    }  
  
    System.out.println();  
}  
  
System.out.println("Game Over! Your total score is: " + score);  
scanner.close();  
}  
}
```

Output:

Welcome to the Number Guessing Game!
You have 5 attempts to guess the number.
Let's get started!

Round 1 - Guess a number between 1 and 100.
Attempts left: 5. Enter your guess: 40
The number is lower than your guess.
Attempts left: 4. Enter your guess: 20
The number is lower than your guess.
Attempts left: 3. Enter your guess: 10
The number is higher than your guess.
Attempts left: 2. Enter your guess: 15
The number is lower than your guess.
Attempts left: 1. Enter your guess: 13
Congratulations! You guessed the correct number!
Round 1 score: 10

