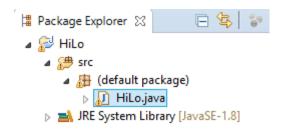


Step 1: Create a Project



```
public class HiLo {
public static int getInteger() {
    java.util.Scanner in = new java.util.Scanner(System.in);
    return in.nextInt();
public static int getRandom() {
    java.util.Random rand = new java.util.Random();
    return rand.nextInt(100);
public static void main(String [] args) {
    int myNumber = getRandom();
    System.out.println(myNumber);
    int guess = getInteger();
    System.out.println(guess);
```

Step 2: Add the prompt logic

```
public static void main(String [] args) {
int myNumber = getRandom();
System.out.println(myNumber);
int guess = getInteger();
System.out.println(guess);
if(guess<myNumber) {</pre>
    System.out.println("Guess higher!");
if(guess>myNumber) {
    System.out.println("Guess Lower!");
if(guess==myNumber) {
    System.out.println("You got it!");
```

Step 2: Add the prompt logic

```
public static void main(String [] args) {
int myNumber = getRandom();
System.out.println(myNumber);
int guess = getInteger();
if(guess<myNumber) {</pre>
    System.out.println("Guess higher!");
} else if(guess>myNumber) {
    System.out.println("Guess Lower!");
} else {
    System.out.println("You got it!");
```

Step 3: The Game Loop

```
public static void main(String [] args) {
int myNumber = getRandom();
System.out.println(myNumber);
int guess=0;
do {
    guess = getInteger();
    if(guess<myNumber) {</pre>
        System.out.println("Guess higher!");
    } else if(guess>myNumber) {
        System.out.println("Guess lower!");
    } else {
        System.out.println("You got it!");
} while(guess!=myNumber);
```

Step 3: The Cleaner Game Loop

```
public static void main(String [] args) {
int myNumber = getRandom();
System.out.println(myNumber);
while(true) {
    int guess = getInteger();
    if(guess<myNumber) {</pre>
        System.out.println("Guess higher!");
    } else if(guess>myNumber) {
        System.out.println("Guess lower!");
    } else {
        System.out.println("You got it!");
        break;
```

Step 4: Features

```
public static int gameLoop() {
    int myNumber = getRandom();
    //System.out.println(myNumber);
    int guessCount=0;
    while(true) {
        int guess = getInteger();
        ++guessCount;
        if(guess<myNumber) {</pre>
            System.out.println("Guess higher!");
        } else if(guess>myNumber) {
            System.out.println("Guess lower!");
            break
    return guessCount;
```

Step 4: Features

```
public static void main(String [] args) {
int highScore = 1000;
while(true) {
    int cnt = gameLoop();
    if(cnt<highScore) {</pre>
        System.out.println("A new high score!");
        highScore = cnt;
    System.out.println("You got it in:");
    System.out.println(cnt);
    System.out.println("High Score:");
    System.out.println(highScore);
```