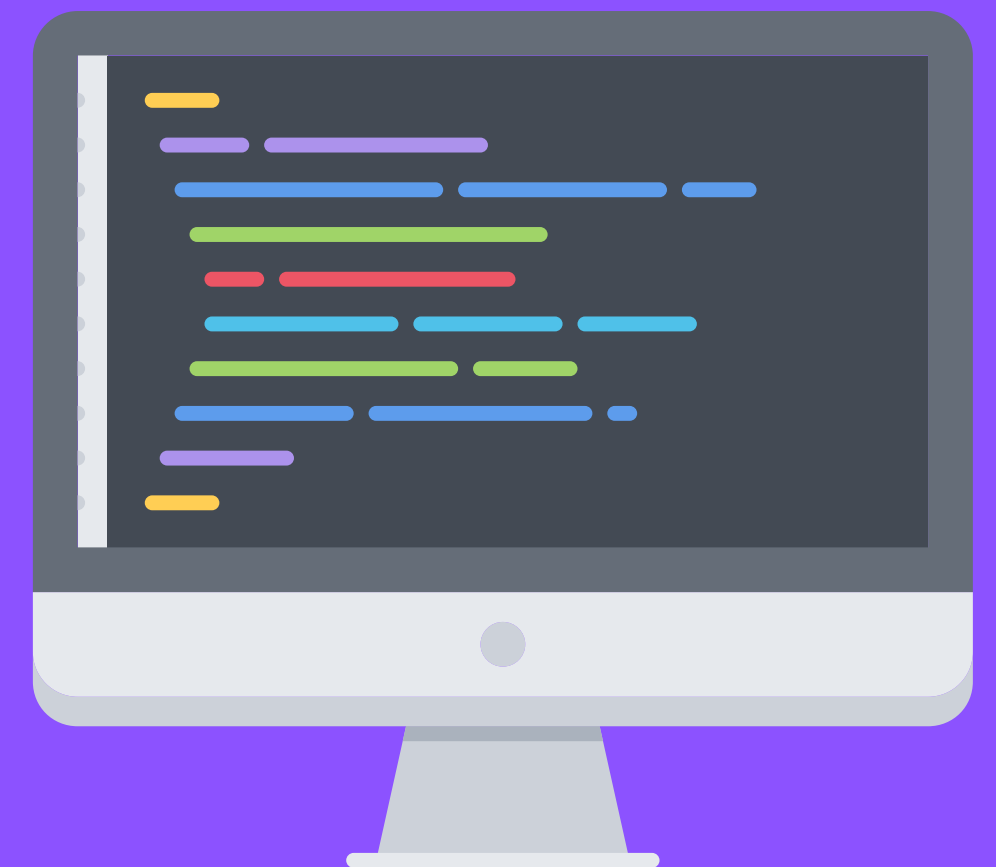# NUMBER
GUESS

PSEUDOCODE

```
Start
        Initialize rand as a random generator
        Initialize randomNum to rand between numbers 1-10
        Initialize guessCount to 3
        Initialize ent as an input generator
Call gameProcess
        While ( guessCount < 3)
                Print "Guess a number between 1-10"
                Initalize playerGuess to ent
                Decrement guessCount by 1
                        If playerGuess == randomNum
                                Print "You are correct! Please Claim your Prize."
                                Print "Random Number is: randomNum"
                                End while loop
                        Else if randomNum < playerGuess
                                Print "Number is too high, try again"
                        Else
                                Print "Number is too low, try again"
                        If guessCount == 0
                                Print "Oops! No chances left, Thanks for playing!"
                                Print "The correct answer is: randomNum"
                                End while loop
                        Else
                                Print "You have guessCount left."
```
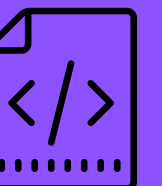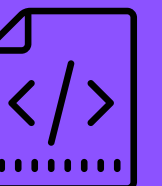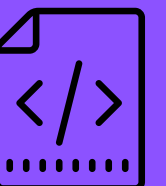
ALGORITHM

```java
import java.util.Random;
public class ideas {

    public static void main(String[] args) {
        Random rand = new Random();
        int randomNum = rand.nextInt(10) +1;
        int guessCount = 3;
        Scanner ent = new Scanner(System.in);
        while(guessCount < 3)
    }
    }
```

```java
import java.util.Random;
public class ideas {

    public static void main(String[] args) {
        Random rand = new Random();
        int randomNum = rand.nextInt(10) +1;
        int guessCount = 3;
        Scanner ent = new Scanner(System.in);
        gameProcess(randomNum, guessCount, ent);
        }

    public static void gameProcess(int randomNum, int guessCount, Scanner ent) {
        while(guessCount > 0) {

        System.out.println("Guess a number (1-10): ");
        int playerGuess = ent.nextInt();
        guessCount--;
            if (playerGuess == randomNum) {
        System.out.println("You are Correct! Please Claim your Prize. ");
        System.out.println("Random Number is: "+randomNum);
        break;
        }
            else if (randomNum < playerGuess) {
        System.out.println("Number is too high, try again.");
        }
            else {
        System.out.println("Number is too low, try again.");
        }
            if (guessCount == 0) {
                System.out.println("Oops! No chances left, Thanks for playing!");
                System.out.println("The correct answer is: "+randomNum);
                break;
            }else {
        System.out.println("You have "+guessCount+" chances left.");
        }
        }
    }
    }
```
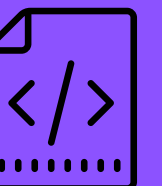
TESTING

```
Console ✕

<terminated> ideas [Java Application] C:\Users\User\.p2\pool\p

Random Number is: 5
Guess a number (1-10):
5
You are Correct! Please Claim your Prize.
Random Number is: 5
```

```
Console ✕

<terminated> ideas [Java Application] C:\Users\User\.p2\po

Random Number is: 6
Guess a number (1-10):
1
Number is too low, try again.
You have 2 chances left.
Guess a number (1-10):
2
Number is too low, try again.
You have 1 chances left.
Guess a number (1-10):
6
You are Correct! Please Claim your Prize.
Random Number is: 6
```

```
Random Number is: 6
Guess a number (1-10):
1
Number is too low, try again.
You have 2 chances left.
Guess a number (1-10):
2
Number is too low, try again.
You have 1 chances left.
Guess a number (1-10):
1
Number is too low, try again.
Oops! No chances left, Thanks for playing!
The correct answer is: 6
```
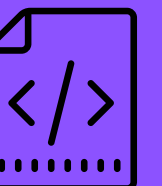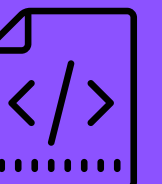
```java
1  import java.util.Random;
3  public class ideas {
4
5      public static void main(String[] args) {
6          Random rand = new Random();
7          int randomNum = rand.nextInt(10) +1;
8          int guessCount = 3;
9          Scanner ent = new Scanner(System.in);
10         gameProcess(randomNum, guessCount, ent);
11     }
12
13     public static void gameProcess(int randomNum, int guessCount, Scanner ent) {
14         while(guessCount > 0) {
15
16             System.out.println("Guess a number (1-10): ");
17             int playerGuess = ent.nextInt();
18             guessCount--;
19                 if (playerGuess == randomNum) {
20             System.out.println("You are Correct! Please Claim your Prize. ");
21             System.out.println("Random Number is: "+randomNum);
22             break;
23         }
24                 else if (randomNum < playerGuess) {
25             System.out.println("Number is too high, try again.");
26         }
27                 else {
28             System.out.println("Number is too low, try again.");
29         }
30                 if (guessCount == 0) {
31                     System.out.println("Oops! No chances left, Thanks for playing!");
32                     System.out.println("The correct answer is: "+randomNum);
33                     break;
34                 }else {
35             System.out.println("You have "+guessCount+" chances left.");
36         }
37         }
38     }
39  }
```

```
Guess a number (1-10):
1
Number is too low, try again.
You have 2 chances left.
Guess a number (1-10):
2
You are Correct! Please Claim your Prize.
Random Number is: 2
```

```
Guess a number (1-10):
4
Number is too high, try again.
You have 2 chances left.
Guess a number (1-10):
9
Number is too high, try again.
You have 1 chances left.
Guess a number (1-10):
1
Number is too low, try again.
Oops! No chances left, Thanks for playing!
The correct answer is: 2
```

REFERENCES

https://www.youtube.com/watch?v=j_ax_yT7KW0
https://www.youtube.com/watch?v=AoUVdLWLFQw&t=240s
https://www.youtube.com/watch?v=xk4_1vDrzzo&t=3155s