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Tutorial: this is not a tutorial but a document with random Java code examples for beginners and novice Java developers. We start with the basics and end up with a j2EE application. Note that I'm not going into the details in each example. Rather than doing that I'm showing you the code and the output. To discuss the code go to [engineeringserver.com/blog](http://engineeringserver.com/blog) or [engineeringserver.com/t3hc0d3z/forum.html](http://engineeringserver.com/t3hc0d3z/forum.html)  
  
Want to contribute or do you have any questions? [info@engineeringserver.com](mailto:info@engineeringserver.com) mail subject: contributing example code.  
Version: 0.1 - note to self: raw draft, not ready for publication.

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## Console output

### Output text

#### Code:

```
System.out.println("text");
```

#### Output:

text

### Output variables

#### Code:

```
String name = "Ark";  
int age = 10;  
System.out.println("Hello: " + name + " are you " + age + " years old?");
```

#### Output:

Hello: Ark are you 10 years old?

## Console input

### Input using Scanner

#### Code:

```
Scanner sc = new Scanner(System.in);  
System.out.print("Input: ");  
String inputString = sc.nextLine();  
System.out.println("Output: " + inputString);
```

#### Output:

Input: Hello World!  
Output: Hello World!

### Reading files using Scanner

#### Code:

```
try {  
    File f = new File("C:\\textFile.txt");  
    Scanner sc = new Scanner(f);  
    while(sc.hasNext()){  
        System.out.println(sc.nextLine());  
    }  
} catch (FileNotFoundException e) {  
    e.printStackTrace();  
}
```

#### Output:

Reading a text file  
is fun!

## Input using BufferedReader

Code:

```
try {
    BufferedReader bis = new BufferedReader(new
InputStreamReader(System.in));
    System.out.print("Input: ");
    String inputString = bis.readLine();
    System.out.println("Output: " + inputString);
}
catch (IOException e) {
    e.printStackTrace();
}
```

Output:

```
Input: Hello World!
Output: Hello World!
```

## Loops

### Create an if/else loop with boolean value

#### Code:

```
boolean hungry = true;
if(hungry){
    System.out.println("I'm hungry!");
}
else{
    System.out.println("I'm not hungry!");
}
```

#### Output:

I'm hungry!

### Create a loop that loops x times and prints out: Value i holds < value>

#### Code:

```
int i = 1;
for(;i<=3; i++){
    System.out.println("Value i holds: " + i);
}
```

#### Output:

Value i holds: 1

Value i holds: 2

Value i holds: 3

### Create an infinite for loop

#### Code:

```
for(;;){
    System.out.println("Infinite");
}
```

#### Output:

Infinite

Infinite

...

Infinite

### Create an infinite while loop

#### Code:

```
boolean infinite = true;
while(infinite){
    System.out.println("infinite");
}
```

#### Output:

Infinite

Infinite

...

Infinite

## Create a while loop with multiple conditions

### Code:

```
boolean contintue = true;
int i = 1;
while(i <= 5 && contintue){
    if(i <= 3){
        System.out.println("Value i holds: " + i + " continue?: " +
contintue);
        i++;
    }
    else{
        contintue = false;
        System.out.println("Value i holds: " + i + " continue?: " +
contintue);
    }
}
```

### Output:

```
Value i holds: 1 continue?: true
Value i holds: 2 continue?: true
Value i holds: 3 continue?: true
Value i holds: 4 continue?: false
```

## Random

### Generate a random value

#### Code:

```
int randomValue1 = (int) (1+ Math.random()*5);  
System.out.println("Random number: " + randomValue1);  
int randomValue2 = (int) (1+ Math.random()*5);  
System.out.println("Random number: " + randomValue2);
```

#### Output:

```
Random number: 5  
Random number: 3
```

## Arrays

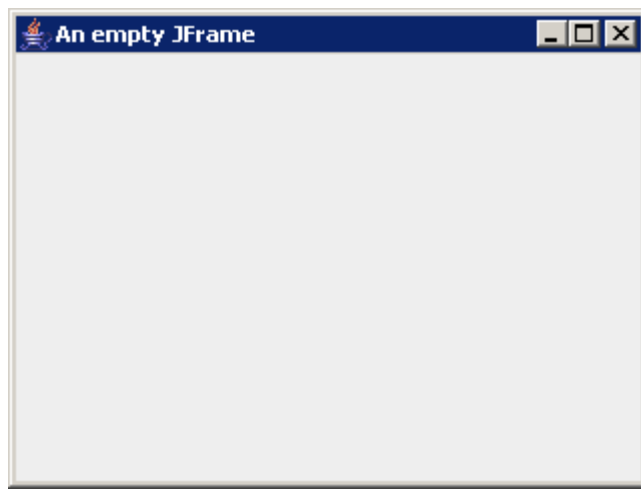
## Gui (Swing/AWT)

### Create an empty container in Swing without using a layout manager

Code:

```
public void showGui(){
    setTitle("An empty JFrame");
    getContentPane().setLayout(null);
    setSize(320,240);
    setVisible(true);
}
```

Output:



**components**

**Listeners**

**Threads**

**Graphics**

**Animation**

etc

**Applets (Swing / AWT)**

## JDBC

### **Retrieve data from database**

<http://www.engineeringserver.com/Software/1%20-%20MySQLWithJavaTutorial.pdf>

### **Write your own queries**

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**Run time**

**Contributors:**

**Change log:**

**17/May/2008**

- initial article

- console output

- console input

- loops

- Gui (Swing)