

STRING-TOKENIZER

1) Separate the tokens (operands and operators) from below statement:

3 + (20%2) * (20/2)

Case 1) Print separated tokens

Case 2) Print Operators and Operand separately

⇒

```
package com.prathamesh.jan24;
import java.util.StringTokenizer;

class Case_one {
    public void showToken(String str) {
        StringTokenizer s2 = new StringTokenizer(str, "+ *", false);
        while (s2.hasMoreTokens()) {
            System.out.println(s2.nextToken());
        }
    }
}

class Case_Two {
    public void showToken(String str) {
        StringTokenizer s1 = new StringTokenizer(str, "() + % * /", false);
        while (s1.hasMoreTokens()) {
            System.out.println(s1.nextToken());
        }
    }
}

public class Q1 {
    public static void main(String[] args) {
        String str = "3 + (20%2) * (20/2)";
        Case_one c1 = new Case_one();
        Case_Two c2 = new Case_Two();
        c1.showToken(str);
        System.out.println("*****");
        c2.showToken(str);
    }
}
```

Output:

```
3
(20%2)
(20/2)
```

3
20
2
20
2

Process finished with exit code 0

2)Using Constructor try to Reinitialize values of class

Employee(emp_id,emp_name,emp_address,emp_sal)

⇒

```
package com.prathamesh.jan24;
```

```
class Employee {
```

```
    int emp_id;
```

```
    String emp_name;
```

```
    String emp_address;
```

```
    int emp_sal;
```

```
    Employee() {
```

```
        System.out.println(emp_id);
```

```
        System.out.println(emp_name);
```

```
        System.out.println(emp_address);
```

```
        System.out.println(emp_sal);
```

```
    }
```

```
    public void displayEmployeeData() {
```

```
        System.out.print(emp_id + " ");
```

```
        System.out.print(emp_name + " ");
```

```
        System.out.print(emp_address + " ");
```

```
        System.out.println(emp_sal + " ");
```

```
    }
```

```
}
```

```
public class Q2 {
```

```
    public static void main(String[] args) {
```

```
        Employee e1 = new Employee();
```

```
        e1.emp_id = 1001;
```

```
        e1.emp_name = "Prathamesh";
```

```
        e1.emp_address = "Ekta Nagar";
```

```
        e1.emp_sal = 45000;
```

```
System.out.println("*****");  
e1.displayEmployeeData();  
}  
}
```

Output:

```
0  
null  
null  
0  
*****  
1001 Prathamesh Ekta Nagar 45000  
  
Process finished with exit code 0
```