

Control Statements

Introduction

- ❖ Java supports most of the well known control statements, such as the `if` statements, the `while` loop, and the `switch case` statement.

Simple Output

```
System.out.println("I have something to say ...");
```

```
System.out.print("I have something to say ...");
```

```
System.out.println("The value of num1 is " + num1);
```

Comments

❖ C style

```
/* This is a great remark.  
It is a smiley remark ... */
```

❖ C++ style

```
// This is also a nice remark
```

Comments

❖ JavaDoc style

```
/**  
 * This is a great remark.  
 * It is a smiley remark */
```

The `if` Statement

❖ The `if` statement syntax:

```
if(boolean expression)  
    statement
```

The `if else` Statement

❖ The `if..else` statement syntax:

```
if(boolean expression)
```

```
    statement
```

```
else
```

```
    statement
```

The `switch` Statement

❖ The `switch` statement syntax:

```
switch( expression 1 )  
{  
    case constant1:  
        statement\s  
        break;  
    case constant2:  
        statement\s  
        break;
```


The `switch` Statement

```
case constant3:  
    statement\s  
    break;  
case constant4:  
    statement\s  
    break;  
default:  
    statement\s  
}
```

The while Loop

❖ The while statement:

```
while (boolean expression)  
    statement
```

The `do..while` Loop

❖ The `do..while` statement:

```
do
```

```
    statement
```

```
while(boolean exp);
```

The for Loop

❖ The for statement:

```
for(initial exp ; boolean exp ; alter exp )  
    statement
```

break and continue

❖ The 'break' and 'continue' statements:

- `break [label]`
- `continue [label]`
- `label: loop statement`