Java - Decision Making

Symbol	Operator
	OR
&	AND
^	XOR
!	NOT
	Short-circuit OR
& &	Short-circuit AND
==	EQUAL TO
!=	NOT EQUAL TO
>	GREATER THAN
>=	GREATER THAN OR EQUAL TO
<	LESS THAN
<=	LESS THAN OR EQUAL TO

If statement:

The if statement is Java's conditional branch statement. Syntax:

```
If(Boolean expression){
// Code here
}

Example:
```

Output: a is greater than b b is less than a

if else : Syntax:

```
if(Boolean condition){
// statement1
}else{
// statement2
}
```

This if else work like: if condition is true than statement1 is executed otherwise statement2 is executed.

Example:

Output:

b is greater than a

If-else-if-ladder:

Syntax:

The if statement executed from top to down. As soon as one of the condition is true, statement associated with that if statement executed.

If none of the condition is true than else statement will be executed, only one of the statement executed from list of else if statements.

Example:

Output:

First Class

switch statement:

The switch statement is multi way branch statement in java programming. It is use to replace multilevel if-else-if statement.

Syntax:

The expression type must be the byte, short, int and char.

Each case value must be a unique literal(constant not a variable). Duplicate case value not allowed.

The each case value compare with expression if match found than corresponding statement will be executed. If no match is found than default statement will be executed. Default case if optional.

The break statement use to terminate statement sequence, if break statement is not written than all statement execute after match statement.

Example:

```
case 1:
          System.out.println("Monday");
          break;
case 3:
          System.out.println("Tuesday");
          break;
case 4:
          System.out.println("Wednesday");
          break;
case 5:
          System.out.println("Thursday");
          break;
case 6:
          System.out.println("Friday");
          break;
case 7:
          System.out.println("Saturday");
          break;
default:
          System.out.println("Invalid Day");
          break;
```

The above information was taken from:

http://www.visionsdeveloper.com/tutorial/java/java-decision-making.jsp