

Lab 05

# What is at is

if I am hungry
I eat something



if I am tired
I go to sleep

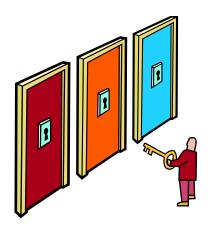


if it is dark
I turn a light on



if I can't hear the song I make it louder





### Relational frequently used operators

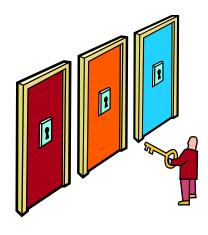
Operator	Use
<b>x==y</b>	checks if x and y have the same value
x>y	checks if x is greater than y
x <y< td=""><td>checks if x is less than y</td></y<>	checks if x is less than y
x>=y	checks if x is greater than or equal to y
x<=y	checks if x is less than or equal to y
x!=y	checks if x is not equal to y

#### 

A boolean is any condition or variable that can be evaluated to true or false.

10 == 10 boolean isOdd = true; boolean isEven = false;

# The state of the s



#### If Definition

An if statement is a block of code that is associated with a condition. The block of code may execute once or not at all depending on the evaluation of the condition.



```
if ( boolean condition placed here )
{
  do something 1;
  do something 2;
}
```



```
int one = 109;
if(one<100)
                           one > 100
 System.out.println("one < 100");
if(one>100)
 System.out.println("one > 100");
```

```
int uilScore = 240;
                       state champ
if(uilScore==240)
 System.out.println("state champ");
if(uilScore<100)
 System.out.println("work harder");
```

```
String stringOne = "big";
if(stringOne.equals("it"))
 System.out.println("== it");
if(stringOne.equals("big"))
 System.out.println("== big");
```

```
boolean isOdd = true;
if(isOdd == true)
                              isodd
 System.out.println("isodd");
if(isOdd == false)
 System.out.println("iseven");
```

### Ifone-Java ifoneui lava

### open Itwo.java

### open ifonestring.java

### open ifoneboolean.java

### open ternary.java

#### nesting ifs

```
int num=7;
if(num>2)
                     >2<10
 if(num<10)
   System.out.println(">2<10");
 if(num>10)
   System.out.println(">2>10");
```

### open ifnesting.java

#### COMMON BRIDES

```
If(total >= 25);
if(total = 10)
```



#### { and ; rule

Never put a; before an open { brace

```
;{ illegal
```



##