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IFS

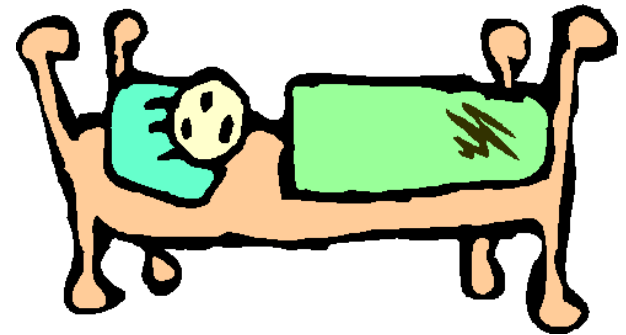# What is an if statement?

The If Statement

if I am hungry
   I eat something

if I am tired
   I go to sleep

The If Statement

if it is dark
    I turn a light on

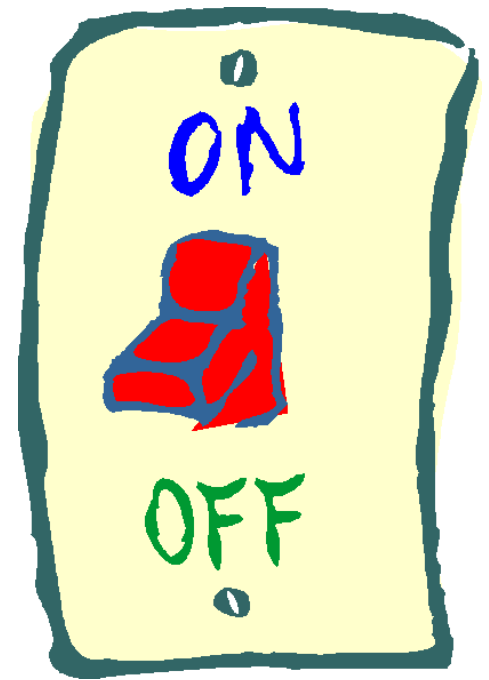**if I can't hear the song**
    I make it louder

The If Statement

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.

The If Statement

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

Boolean

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

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

Relational

frequently used operators

Operator	Use
x==y	checks if x and y have the same value
x>y	checks if x is greater than y
x<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

Boolean

Boolean Condition Examples

aplus > 900
aplus <= 50
num == 75
num != otherNum

The If Statement

```
int aplus = 109;
if(aplus<100)
{
   System.out.println("aplus < 100");
}
```

OUTPUT

no output

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The If Statement

```java
int aplus = 109;
if(aplus>100)
{
   System.out.println("aplus > 100");
}
```

OUTPUT

aplus > 100

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The If Statement

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

OUTPUT

state champ

ifone.java
ifoneuil.java
iftwo.java

The If Statement

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

OUTPUT

isodd

ifoneboolean.java
ternary.java

Parsing Strings

```
int i =
i = Integer.parseInt("2343");
out.println( i );
```

```
double d = Double.parseDouble("23.78");
out.println( d );
```

stringtonums.java

Common Errors

If(total >= 25)**;**
{

}

if(total = 10)
{

}

Common Errors

Never put a ;
before an open { brace

;{ illegal

}; legal

Work on Programs!

Crank Some Code!

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