Repetition

Why do we need this?

Two basic techniques:
• Loops (starting today)
• Recursion (later)
While loops

while(<boolean condition>) {
    <put statements here>
}

Example: SimpleWhile.java, BaseConverter.java
do-while Loops

do {
    <put statements here>
} while(<boolean condition>);

Example: doWhile.java
For Loops

One common example:

```java
int i = 0;
while (i < 1000) {
    <do something>
    i = i + 1;
}
```

```java
for (int i = 0; i < 1000; i = i + 1) {
    <do something>
}
```

Examples: SimpleForLoops.java, Summation using for loop
Stopping an Infinite Loop!

Eclipse Demo...