



CMSC 131

Fall 2018

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:

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

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

Examples: SimpleForLoops.java, Summation using for loop

Stopping an Infinite Loop!

Eclipse Demo...