

DASL 130 – C Programming Course

Lecture 2

Logical Operators

- Equals (Equivalence) ==
- Non Equivalence !=
- Less Than <
- Less Than or Equal To <=
- Greater Than or Equal To >=

Logical Operators

- Logical AND

&&	0	1
0	0	0
1	0	1

- Logical OR

	0	1
0	0	1
1	1	1

If Statement

```
if (conditional) {  
    code block  
}  
else if(conditional) {  
    code block  
}else{  
    code block  
}
```

Do and While

```
while (conditional) {  
    code block  
}
```

```
do {  
    code block  
} while (conditional)
```

What's the difference?

For Loop

```
for(int i=0; i<5; i++){  
    code block  
}
```

Here we are starting at 0 and incrementing until i is 4.

```
for(int test=52; test>=6; test/=2) {  
    code block  
}
```

A less typical example.

Chars and ASCII

- Puts the ASCII value of a char in the variable
 - `char test = '5'`
- Printing with `%d` gives the numeric value, `%c` gives the character

Reading Input

- Reading input uses scanf with a format like printf

```
scanf("%f,%f,%c", &in1, &in2, &in3);
```

- This will load floats into in1 and in2, and a char into in3
- A number can be placed between the % and variable letter, to indicate how many characters will be read