

Notes for Tuesday 1 February

01 February 2011

- Meeting 5
- read §4.1–4.2

Boolean expressions, logical operators, if, and else.

(We're one lecture behind, so above topics will be covered in Meeting 6.)

Assignment 2 solution

```
#include <stdio.h>
int main1()
{
    float temp_f, temp_c;
    temp_f = 71.5;
    temp_c = (temp_f-32)/1.8f;
    printf("%f degrees Fahrenheit is"
           " %f degrees Celsius.\n",
           temp_f, temp_c);
    return 0;
}
```

Formatted Output

We learned about %f and %d format codes for printf. These are used to output floats and integers, respectively. But they have a few more features for formatted output. By default, for example, our float values were printing out with six digits after the decimal:

```
printf("The answer is %f\n", 3.4);
// Result: The answer is 3.400000
```

Formatted Input

```
#include <stdio.h>
int main()
{
    float temp_f, temp_c;

    printf("Enter temperature (F): ");
    scanf("%f", &temp_f);

    temp_c = (temp_f-32)/1.8f;
    printf("%.2f degrees Fahrenheit is"
```

```
        "%.0f degrees Celsius.\n",  
        temp_f, temp_c);  
    return 0;  
}
```