

## Class 1 Homework

### Practicing Input/Output and basic Classes

Remember that your programs will begin with:

```
#include <iostream>
using namespace std;

int main()
{
    // Program goes here!
    return 0;
}
```

#### 1. Create “Hello World”

Create a simple program that outputs “Hello, world!” with **cout**. See the class Handout, if you don't remember how to use this.

#### 2. Add, subtract, multiply, and divide

Ask the user for two numbers, like in the handout. After the numbers are entered, output the results of:

- Addition +
- Subtraction -
- Multiplication \*
- Division /

#### 3. (Conceptual) Come up with Objects, Functions, and Attributes.

Look at common items in everyday life and try to figure out what the *Object* is (think: Nouns!), what its *Functions* are (think: Verbs!), and *Attributes*.

A TV Object might have functions like “Turn On”, “Turn Off”, “Switch Channel Up”, “Turn Volume Up”, etc. It might have attributes like “list of channels available”, “current volume”, and “current channel”.

#### 4. Modify Cats

In the Handout towards the end, there is a program with a Cat class. Copy that program, and try to modify it. What other functions might a cat have? What other attributes?