

Lab 2 - wb 04/11/13

This week will cover if statements and switches. Follow the demos below to cover this.

If Statement Demo Part 1

Open visual studio or preferred programming tool, create a project and then add a main.cpp file.

Conditions in c++ can be ==, >, <, >=, <=

```
#include <iostream>

using namespace std;

int main()
{
    int age;
    cout<<"How old are you?"<<endl;
    cin>>age;

    if (age < 30)
    {
        cout<<"You are Young! :)";
    }

    if (age>=30)
    {
        cout<<"Your a bit old aren't you... ";
    }

    cin.ignore();
    cin.get();

    return 0;
}
```

If Statement Demo Part 2

This part of the if statement demo continues to show IF and **ELSE**

Logical operators in c++ are (**AND**) **&&**, (**OR**) **||** , (**NOT**) **!**

```
#include <iostream>

using namespace std;

int main()
{
    char chips;
    char cheese;
    cout<<"Do you like Chips? (y/n)"<<endl;
    cin>>chips;
    cout<<"Do you like Cheese? (y/n)"<<endl;
    cin>>cheese;
    cout<<endl;

    if (chips == 'y' && cheese == 'y')
    {
        cout<<"You will really like cheesy chips then!";
    }
    else
    {
        cout<<"Oh, never mind.... ";
    }

    cin.ignore();
    cin.get();

    return 0;
}
```

Switch Demo

This demo shows how to create switches.

```
#include <iostream>

using namespace std;

int main()
{
    int choice;
    cout<< "Pick a number between 1 and 10: ";
    cin>>choice;
    cout<<endl ;

    switch(choice)
    {
        case 1: case 2: cout << " Pick another number...!"; break;
        case 3: cout << " Hello there!"; break;
        case 4: cout << " Good morning"; break;
        case 5: case 6: cout << " Good evening"; break;
        case 7: cout << " I don't like that number, leave me alone"; break;
        case 8: case 9: case 10:
            cout << " You like high numbers don't you"; break;
        default: cout << " That input wasn't what I asked for!";
    }

    cin.ignore();
    cin.get();

    return 0;
}
```

You can use switches with Chars as well. Just like this “`case 'a' :`”

Have A Go - Test Your Knowledge!

Challenge 1

Output a menu to the user and ask them to choose an option (a,b,c / 1,2,3), output something based on what they input.

Try this using both if statements and switches.

Challenge 2

Ask the user to input a number between 1 and 100. If it is 50 or under then times it by 2 and output the result, otherwise divide it by 2 and output the result.