Thursday 2nd July
1:30-3:30
Fab 135-02
Resitation Session
3:30-5:15
Room TBA

M-F 11-6  Tutor Hours
S 12-5  Feb 88-02
```cpp
#include <iostream>
using namespace std;

// comments name, class, purpose

/**
 * Algorithm
 *
 **/

// ** *
int main()
{
    return 0;
}
```
int main()
{
    cout << "Welcome...";
    cout << "Welcome..." "blurs";

    return 0;
}
Variables & Data Types

int  short, long
default float
double  char
Input

float cost;

cin >> cost;

See in extraction

Variable

Skips Leading whitespace,
reads in data

char ch;

cin >> ch;

Clear out input buffer

cin. ignore (); // 1 char

cin. ignore (106, '\n');

cin. ignore (100); // NO
Selective Execution

if (_____)
   conditional expression
   - Single statement
   if block
   
   if (cost < 0.0)
   
   cout << " Negative cost Received";
   cout << endl;
   cout << 'n';
   
   else
   
   cout << " great job " << endl;

}
if (cost < 0) 
cout << "Error";
else if (cost > 1000.0) 
cout << "Too Expensive";
else cout << "We are on track";

Relational
< <= > >= 

if (age >= 20) 
  // age is NOT less than 20
Equality
== !=

if (age != 20)

Boolean
&& || !
(and) (or) (not)
if (count == 100)

if (age >= 10 && age <= 30)

{ if (age >= 20) True
}

{ if (age >= 88) True
}
while ( )
{
    // body
}

char response;
do
{
    cout << "prompt";
    cin >> info;
    cout << "Echo: " << info;
    cout << "Is this correct? ";
    cin >> response;
}
while (response != 'y')
{
    // conditional
}
float total = 0.0; float num;
cout << "Please enter number" << endl;

for (int i = 0; i < count; i++) {
    cin >> num;
    total += num;
}

int c = 0;
while (c < count)
{
    cin >> num;
    total += num;
    ++c;
    total = total + num;
}
Arrays

char name[217];

\*\*/

#include <ctype.h>

int main()
{
    char name[217];
    name[0] = toupper(name[0]);
Reading in an 
Array of Characters

1) cin.width(21);
   cin >> name;
Skip leading whitespace, read in characters until whitespace is encountered but not read.
Reads in 1 word

2) cin.get(name, 21, '\n');
   array name, size of array, stop at
Reads 20 characters or stops when encounters '\n'
cout << "please enter your age";
cin >> age; cin.ignore();
cin << "please enter your name";
cin.get(name, 21, 'n');
cin.ignore(100, 'n');