Statistical Methods
C++ Notes

C++: What we have learned

- **Variable types:** `int`, `unsigned int`, `float`, `double`
  There are some more types: `short int`, `char`, `string`, `bool`

- **Operators:** `+`, `-`, `*`, `/`, `pow(x,n)`, `+=`, `++`, `*=`, `/=`, `-=`
  boolian opertators: `<`, `>`, `<=`, `>=`, `!`, `!=`

- **Qualifiers:** `const`, `static`

- **Loop:** `for(int ii=start; ii<finish; i++){ Do something }`
  `while(condition) { Do something }`

- **Logical statemets:**

```
  if (x != y){
    Do something here
   }
```

```
if (x != y){
  Do something here
 }
else{
  Do something else here
}
```

- **Function writing:** `ReturnType FunctionName(type1 vname1, type2 vname2)`

```
 #include<iostream>

 double mul(int x, float y){
    //Do somethings here
    return x*y;
 }

 int main(){
 float y = 3.0;
     int x = 76;

 cout << mul(x,y) << endl;
 }
```

```
#include<iostream>
double mul(int x, float y)

int main(){
float y = 3.0;
    int x = 76;

cout << mul(x,y) << endl;
}

double mul(int x, float y){
   //Do somethings here
   return x*y;
}
```

- **ROOT:**

  - Website: `http://root.cern.ch`

  - ROOT tutorial examples can be found on the website and also on
    `/usr/share/doc/root/tutorials/`