Object-oriented Programming

Lecture 6

Member Initialization List

 Constant class members can only be initialized through constructor's member initialization list



Member Initialization List

```
class A
    const int x;
    const int y;
    public:
    A ( int val1 , int val2 ) : x ( val1 ) , y ( val2 )
                                                                name of member
                                                                variable
};
int main()
                             parameter
    A a (5, 10);
```

Storage-class Specifiers

- 1. Auto
- 2. Register
- 3. Extern
- 4. Static
- 5. Mutable

Mutable Variables

 We know that constant functions cannot modify any data member of the class

 However, if we want to allow modification of some variable inside a constant function then we can make that variable mutable

Mutable Variables

```
class MyClass
      int a;
      mutable float b;
      public:
     void func( ) const
            b = 12.5f; // OK: This will work
           a = 99; // This will cause error
```