Object-oriented Programming

Lecture 3

Access Modifiers

 Access modifiers are used to control access to class members



 public, private & protected are three of the access modifiers available in C++

 In C++, class members are considered private when no access modifier is used

Example

```
class BankAccount
    int accountNo;
    private:
          int PIN;
    public:
          int accountType;
```

Getter/Setter Functions

 Getter functions (or accessor functions) are used to read value of a private member of some class

 Setter functions (or mutator functions) are used to modify the value of a private member of some class

Example

```
class BankAccount
        //private variable
int PIN;
 public:
int get_PIN()
    return PIN;
```

Example

```
class BankAccount
int accountNo; //private variable
public:
void set accountNo(int num)
    accountNo = num;
```

Getter/Setter Functions

- Can we use just a single setter function for all the class member variables?
 - Bad idea! But why?
 - Because it will cause needless dependency between variables
- Can we use just a single getter function for all the class member variables?
 - Bad idea! But why?
 - You cannot return more than one values in a function (and should not actually)