## **Attributes What is a Bank Account?**

- a) private String acctNumb
- b) private double balance //attributes (class variables)

3 parts to a variable accessor, type, identifier

## Methods -What does a bank account do?

Constructor. How do we build (instantiate) a BankAccount

**Default Constructor** Same name as the class

```
public BankAccount()
{
    balance = 100
    accountNumber="99999";
}
```

## **Constructor with parameters Overloaded Constructor**

```
public BankAccount(double myBalance, String myAccount)
{
balance = myBalance;
acctNumber = myAccount
```

Accessor methods gives us info about the bank account (getter )

}

```
public String toString()//returns a string representation of the object
         return ("This Bank Account has a balance of " + getBalance()+
                 ", and account number " + getAccount() + ".");
Mutator (modifier) methods-changes the state of the object (setter) type void
public void deposit ( double amount)
balance = balance + amount;
// balance +=amount;
public void withdraw (double amount)
balance = balance - amount;
// balance -=amount;
public void calculateMonthlyInterest(int rate, myBalance)
double interest;
interest = myBalance *rate/100
```

// balance +=amount;

## Main Method (Driver, Runner, Tester) How can we use the class BankAccount?

```
public static void main(String[] args)

BankAccount one = new BankAccount();
one.deposit(200);
System.out.println(one);
    BankAccount two = new BankAccount(1000, "111111111");
two.calcMonthlyInterest(3, balance); //What is wrong with this parameter set?
    System.out.println(two.getBalance());
```

{