

Plan for Today

Method calls: method declaration, new expression, and call expression

Assignment statements

- Locals and Members

IdExp

- Locals and Members
- Class references

Method Call Example

```
class ObjectFun {
    public static void main(String[] a){
        System.out.println(new MyClass().runObjectFun());
    }
}

class MyClass {
    public int runObjectFun() {
        return 5;
    }
}
```

Assignment statements and IdExps

```
class IdExp { public static void main(String[] a){
    System.out.println(new MyClass().testing(7)); } }
```

```
class MyClass {
    int y;
    public int testing(int p) {
        int x;
        x = 15;
        y = 14;
        return x - p + y * 3;
    }
}
```

Class Reference Example

```
class ClassRef { public static void main(String[] a){
    System.out.println(new MyClass().testing()); } }
class MyClass {
    int y;
    public int testing() {
        MyClass a; MyClass b;
        a = new MyClass(); b = new MyClass();
        y = a.changeY(7);
        y = b.changeY(42);
        b = a;
        return b.getY() + a.getY() + y; }
    public int changeY(int p) { y = p; return 3; }
    public int getY() { return y; } }
```