Revision

- · Short term memory can store? items
- What are the two "things" inside a class
- · Explain the meaning of each of the following word/character

```
public class MyAge {
  public static void main(String[] args) {
    double age = 19;
    System.out.println("My age is " + age);
8/24/2016
```

Some Statements in Methods

- output statement (15 converted to a string "15" first) System.out.println("The result is " + 15);
- local variables declaration / assignment double aValue; aValue = 3.3 * 5; // assignment // double aValue = 3.3 * 5;
- · return statement return aValue / 2;

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Student class

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```
public class Student {
 private String name;
  // getter method, returns value of an attribute
  public String getName() {
    return name;
  // setter method, assigns parameter to an attribute
  public void setName(String aName) {
    name = aName;
· We have a class now. How to create an object?
```

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Testing class

```
public class TestStudent {
  public static void main(String[] args) {
    // create a student object
    // format: Class variable = new Constructor()
    Student amy = new Student();
    // call method format: object.method(parameters)
    amy.setName("Amy Chan");
    String aName = amy.getName();
    System.out.println("Student object: " + aName
                       + " created");
} //output: Student object: Amy Chan created
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                                                   17
```

Statement execution: setter

```
Student amy = new Student();
    amy.setName("Amy Chan");
public class Student {
  private String name;
  public void setName(String aName) {
    name = aName;
                                  A Student Object
                                  name: "Amy Chan"
                         amy
                                  getName()
                                  setName()
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```

```
Statement execution: getter
// call method format: object.method(parameters
String aName = amy.getName();
```

```
public class Student
  private String name;
  // getter method, returns value of an attribute
  public String getName() {
    return name;
                                        A Student Object
}
                                        name: "Amy Chan"
                              amy
                                        getName()
                                        setName()
```

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Student class: more

```
public class Student {
    private String name; // old attribute
    private int age;

    // getter/setter methods of attribute name omitted
    ...
    public void setAge(int anAge) {
        age = anAge;
    }
    public int getAge() {
        return age;
    }
    public String allInformation() {
        return name + ", " + age;
    }
}
```


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