CMSC 131
Fall 2018
Announcements

- Project #6 has been posted
- Exam #2 in 10 days (Monday 11/19)
Switch Statements

Two ways to do the same thing:

```java
if (x == 3) {
    A
} else if (x == 40) {
    B
} else if (x == -5) {
    C
} else {
    D
}
```

```java
switch(x) {
    case 3:
        A
        break;
    case 40:
        B
        break;
    case -5:
        C
        break;
    default:
        D
}
```
Switch Statements (Details)

- Default is optional

- Variable at the top must be one of these types: int, short, byte, char, String

- Cases must be *literals* ONLY (not variables, not more complex expressions)
  
  **Example:** SimpleSwitch

- What happens if we take out “default”?
  
  (This distinguishes switch statements from if else-if else-if chains)
  
  **Examples:** BetterSwitch, AgeCalculator
Intro to Inheritance

We need this to fix our broken equals method
Most details will be postponed until CMSC132

What is inheritance?

Let’s develop an example:
Clock.java
AlarmClock.java

Let’s write a driver class to demonstrate inheritance.
Vocabulary:
• extends, extension
• Inherits, inheritance
Inheritance Diagram and “IS-A” relation

Vocabulary:
- Base class / superclass
- Derived class / subclass

Talk about “Transitivity”