

## Week 6, Lecture 1

### Creating and Using Objects



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## Announcements

- **Assignment 2** is due at the end of next week:  
deadline is **4pm Friday September 10th**  
(late assignments cannot be accepted).

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## Assignment 2 Submission

- prepare the **three** files  
**Pirate.java**, **PlankStatistics.java** and  
**PercentSaved.java**
- ensure the top of **each** file contains the comments:  

```
// Family name: DODGER  
// Given names: Roger The  
// Student number: 87654321
```
- follow the instructions for submission; in particular, you **must submit all three files together**--if you resubmit you must resubmit **all three files**
- keep a record of your **Submission Id**

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## This Week

**Lecture 1: Creating and using objects**

**Lecture 2: Case study: catch me if you can**

**Java Genesis:**

–Ch7: Objects and classes

**Lab Assessment 5** (deadline Week 8)

**Quick Quiz for Chapter 6**

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```
import genesis.*;  
  
public class GoWalking {  
  
    public static void main (String [ ] args) {  
        int posn = 0;  
        while (true) {  
            Transcript.print(posn+" ");  
            Delay.milliseconds(500);  
            if (Math.random() > 0.5) posn = posn + 1;  
            else posn = posn - 1;  
        }  
    }  
}
```

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```
public class Walker {  
  
    // instance variables  
    private int posn;  
    private String name;  
  
    // constructor methods  
    public Walker (String n) {  
        posn = 0;  
        name = n;  
    }  
  
    public Walker (int p, String n) {  
        posn = p;  
        name = n;  
    }  
}
```

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```

// instance methods
public void move () {
    if (Math.random() > 0.5) posn++;
    else posn--;
}

public int getPosn () {
    return posn;
}

public String getName () {
    return name;
}

public String toString () {
    return name+" is at "+posn;
}
}

```

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```

import genesis.*;

public class GoWalkingAgain {

    public static void main (String [] args) {
        Walker w1 = new Walker("phantom");
        Walker w2 = new Walker(4, "devil");
        Transcript.println(w1+" "+w2);
        while
            (w1.getPosn() != w2.getPosn()) {
                Delay.milliseconds(500);
                w1.move();
                w2.move();
                Transcript.println(w1+" "+w2);
            }
    }
}

```

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