

Handout for CS56, W15 Final (E03)

Person.java

Person.java

```
1 public class Person {
2     private String name;
3     private int age;
4
5     public Person(String name, int age) {
6         this.name = name; this.age = age;
7     }
8
9     public String getName() { return name; }
10    public int getAge() { return age; }
11
12    public String toString () {
13        return "(" + name + "," + age + ")";
14    }
15
16    public static void main(String [] args) {
17        String name = "Fred";
18        int age=32;
19
20        Person y = new Person(name,age);
21        Person x = new Person("Wilma",31);
22
23        System.out.println("A: x = " + x + " y = " + y);
24
25        name = "Betty";
26        age = 29;
27        x = new Person(name,age);
28        y = new Person("Barney",29);
29
30        System.out.println("B: x = " + x + " y = " + y);
31    }
32
33 }
```

See other side for information on "PushCounter.java"

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PushCounter.java

PushCou

```
1  import javax.swing.JFrame;
2  import javax.swing.JLabel;
3  import javax.swing.JButton;
4  import javax.swing.JPanel;
5  import java.awt.FlowLayout;
6  import java.awt.event.ActionListener;
7  import java.awt.event.ActionEvent;
8
9  public class PushCounter extends JPanel
10 {
11     public static void main(String[] args)
12     {
13         JFrame frame = new JFrame();
14         frame.setSize(400,200);
15         frame.setTitle("Push Counter");
16         frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
17         JPanel pushCounter = new PushCounter();
18         frame.add(pushCounter);
19         frame.setVisible(true);
20     }
21
22     JButton button;
23     JLabel label;
24     public PushCounter () {
25         this.button = new JButton("Push Me");
26         this.label = new JLabel("0");
27         this.setLayout(new FlowLayout());
28         this.add(button); this.add(label);
29         button.addActionListener(new ButtonListener());
30     }
31
32
33     public void actionPerformed (ActionEvent event) {
34         String theText = label.getText();
35         int value = Integer.parseInt(theText);
36         value ++;
37         label.setText(String.format("%d",value));
38         System.out.println("value=" + value);
39     }
40 }
41
42 }
```

See other side for Person.java