## **Class Counter**

```
public class Counter {
    protected int start;
    protected int count;

public Counter(int value) {
        start = value;
        count = start;
    }

public void increment() {
        count++;
    }

public void reset() {
        count = start;
    }

public String toString() {
        return "(" + count + ")";
    }
}
```

## **Class LimitedCounter**

## Class AdvancedCounter

```
public class AdvancedCounter extends Counter{
    private int amount;

    public AdvancedCounter(int value, int amount) {
        super(value);
        this.amount = amount;
    }

    @Override
    public void increment() {
        count += amount;
    }
}
```

## **Class Test**

```
public class test {
     public static void main(String[] args) {
           // TODO Auto-generated method stub
           Counter c1 = new Counter(0);
           AdvancedCounter c2 = new AdvancedCounter(0, 3);
           LimitedCounter c3 = new LimitedCounter(0,3);
           c1.increment();
           c2.increment();
           c3.increment();
           System.out.println(c1);
           System.out.println(c2);
           System.out.println(c3);
           c3.increment();
           c3.increment();
           c3.increment();
           System.out.println(c3);
           c3.reset();
           System.out.println(c3);
     }
}
```