Class test 1/2/3

Date: 27-Oct

```
class OuterClass {
  protected int x1 = 10;
  static int x2 = 200;

  class InnerClass1 {
    protected int x3 = 5;
  }

  class InnerClass2 extends InnerClass1
  {
    protected int x4 = 2;
  }

  interface InnerA
  {
    int x5 = 100;
    int x6 = x2;
    void show();
  }

}
```

```
22
23  class XClass extends OuterClass
24  {
25      void disp1()
26      {
27          System.out.println("X1 is: " +x1);
28      }
29
30  }
31
32
33  class InterfaceClass implements OuterClass.InnerA
34  {
35      public void show()
36      {
37          System.out.println("X5 via interface is: " +x5);
38          System.out.println("X2 via interface is: " +x6);
39      }
40  }
41
```

```
41
42  public class nested4 {
43      public static void main(String[] args) {
44          OuterClass myOuter = new OuterClass();
45          OuterClass.InnerClass1 myInner1 = myOuter.new InnerClass1();
46          OuterClass.InnerClass2 myInner2 = myOuter.new InnerClass2();
47
48          System.out.println("X1 is: " +myOuter.x1);
49          System.out.println("X2 is: " +myOuter.x2);
50          System.out.println("X2 is: " +myInner1.x3);
51          System.out.println("X3 is: " +myInner2.x4);
52          System.out.println("Checking inner inheritance, X3 is: " +myInner2.x2);
53
54          XClass xc1= new XClass();
55          xc1.disp1();
56
57          InterfaceClass ic = new InterfaceClass();
58          ic.show();
59
60      }
61  }
```

Task

- Run the program given in the previous slides
- Print all the variables.
- Understand (for viva) how variables are accessed depending on their location:
  - Outer class
  - Inner class
  - Inheritance in Inner class
  - Inheritance in outer class

- Submit: code and lab report
- Lab report shall be modified to “Class test”
  - Put the class test no. in serial order (1 for first test, 2 for second test etc.)

THANK YOU!