5.2 Example-1

```
public class TestAppl {
  public static void main(String args[]){
        Mole   huckleberry = new Mole(1,  "huckleberry",  14);
        Worm   speedy = new Worm(2,  "speedy",23);
        Animal  a = new Animal(3,"rex");
        Mole    m;
        Object o;
        Animal farm[] = new Animal[3];

        farm[0] = huckleberry;
        farm[1] = speedy;
        farm[2] = a;

        System.out.println("->" + a + "<-");
        if (huckleberry instanceof Animal)
            a = huckleberry;
        System.out.println("->" + a + "<-");
        ((Mole)a).addChild(new Mole(11,  "tom",  14));
        //((Mole)speedy).addChild(new Mole(11,  "tom",  14));           //*1*
        a = speedy;                                                     //*2*
        ((Mole)a).addChild(new Mole(11,  "tom",  14));
        huckleberry.addChild(new Mole(22,  "betty",  14));
        if (huckleberry instanceof Object) {
            o = huckleberry;
            System.out.println("->" + o + "<-");
        }
        for(int i=0; i < farm.length; i++)
            System.out.println("->" + farm[i] + "<-");

        m = speedy;                                                     //*3*
  }
}//end class
```

5.3 Example-2

```
public class TestAppl {
      public static void main(String args[]) {
            Object o = new Object();
            Person p = new Person("einstein","1910-05-31");
            Teacher l = new Teacher("zweistein","1999-12-31",987

            System.out.println(o);
            System.out.println(p);
            System.out.println(l);
            System.out.println(o instanceof Person);
            System.out.println(p instanceof Teacher);

            o=p;
            p=l;
            l=p;
            System.out.println(o);
            System.out.println(p);
            System.out.println(l);
            System.out.println(o instanceof Person);
            System.out.println(p instanceof Teacher);
            System.out.println(l.getSalary());
            System.out.println(p.getSalary());
            o = l;
            System.out.println((o.getSalary());
            System.out.println(((Teacher)o).getSalary());

            p = new Person("dreistein","1910-05-31");
            l=(Teacher)p;
            System.out.println(l.getSalary());

            p= new Teacher("vierstein","1999-12-31",111);
            System.out.println(p);
            l=(Teacher)p;
            System.out.println(l.getSalary());
      }//end of main()
}
```