根据同学们的惰性,再加上今年有助教帮助,决定新加一个平时作业! 作业要求:请结合上课讲的实例,请编程实现在屏幕任何位置显示菱形、矩形、圆、三角形等形状,要求编程中运用抽象原理、封装原理、继承原理和多态性原理,采用如下测试代码,则执行结果如下图一所示:

```
public class Test1 {
    public static void main(String[] args) {
       Screen myscreen=new Screen (25,80);
       myscreen.cls();
       Shape shapes[]=new Shape[5];
       shapes [0] = new Lingxing (0,0,9);
       shapes[1]=new Lingxing(20,1,12);
       shapes [2] = new Rectangle (14, 1, 5, 7);
       shapes [3] = new Triangle (56, 2, 7);
       shapes[4]=new Circle(34,0,10);
       for(int i=0;i<shapes.length;i++) {</pre>
          shapes[i].printme(myscreen);
       myscreen.display();
    }
}
                                                 ***
   pic pic pic
               sic sic sic sic sic
                                          **********
                           ***
  tale tale tale tale tale
               take take take take take
                                       ple ple ple ple ple ple ple ple
               sic sic sic sic sic
                          pie pie pie pie pie
                                      alc alc alc
ale ale ale ale ale
                         also also also also also also also.
                                      *****
               ak ak ak ak ak
                        take take take take take take take take
                                      ***** ********
  ak ak ak ak ak
                                     **********
   ***
               **********
                        pie pie pie pie pie pie pie pie pie pie
                                        *********
                         ple ple ple ple ple ple ple
                                         **********
                           pic pic pic pic pic
                                                ***
                            ***
```

图一

如果在 myscreen.display();前面加 myscreen.scroll();则执行效果如图二所示:

请同学将完成的作业打包交给学习委员,有学委统一提交给助教!同学可以针对自己的作业提交一个简单的说明文档,以便助教评阅。第8周末前交!原第一个作业延迟到第11周末前交。