Takshashilaa College, Vadodara.

Subject Code: 403 / Java Programming.

Assignment: 1

Submission Date: 16/01/2012   Assignment Date: 03/01/2012

1. **Write a program to display the fibonacci series up to N and also print it in following pattern.**
   E.g. For N = 5

   O/P: 1 1 2 3 5

```
                    1

               1        1

          1    1      2

     1    1    2          3

1    1    2    3          5
```

2. **Write a code to input a line of text and find out longest word in inputted text. Also apply word in following pattern**
   Ex: I/P: Today is my Practical Exam

   O/P: Practical

   P

   P r

   P r a

   P r a c

   P r a c t

   P r a c t i

   P r a c t i c

   P r a c t i c a

   P r a c t i c a l

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3. **WAP to generate following:**

```
        *
      *   *
     *      *
    *         *
   *  *  *  *  *
```

4. **WAP to find the area of the circle. Overload the constructor to initialize the value of x, y coordinate and radius of the circle. Create move () to change the x and y coordinate to move the position of the circle and scale () methods to enlarge or reduce the size of the circle.**

5. **WAP that defines a Sphere class with three constructors. The first form accepts no arguments. It assumes the sphere is centered at the origin and has a radius of one unit. The second form accepts one double value that represents the radius of the sphere. It assumes the sphere is centered at the origin. The third form accepts three double arguments. These specify the coordinates of the center and the radius. Define a show () that will display all the variables of the object. Create a main () that will call all type of constructors by creating objects of Sphere and call show () for each object**