**Slip 8**

[October 31, 2023](https://nilambariblogfortybsc-cs.blogspot.com/2023/10/slip-8.html)

 Q1) Create a class Sphere, to calculate the volume and surface area of sphere. (Hint : Surface area=4\*3.14(r\*r), Volume=(4/3)3.14(r\*r\*r))

import java.util.\*;

public class sphere\_Slip8\_1

{

        public static void main(String args[])

     {

     int radius;

     //double pie=3.14285714286;

Scanner s=new Scanner(System.in);

System.out.println("Enter the Radious");

radius=s.nextInt();

double area=4\*(Math.PI)\*radius\*radius;

  System.out.println("Area of the sphere="+area);

     double volume=(4.0/3.0)\*Math.PI\*(radius\*radius\*radius);

     System.out.println("Volume of the sphere="+volume);

     }

}

Q2) Design a screen to handle the Mouse Events such as MOUSE\_MOVED and MOUSE\_CLICKED and display the position of the Mouse\_Click in a TextField.

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

public class Slip8\_2 implements MouseListener,MouseMotionListener

{

JTextField t1;

String msg="";

    Slip8\_2()

    {

        // Create and set up the window.

        JFrame frame = new JFrame("MouseListenerExample");

        // Display the window.

        frame.setLayout(new FlowLayout());

t1=new JTextField (30);

frame.addMouseListener(this);

frame.addMouseMotionListener(this);

frame.add(t1);

  frame.setSize(500,300);

        frame.setVisible(true);

        frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

    }

public void mouseClicked(MouseEvent me)

{

msg = "Mouse clicked at X = "+me.getX()+" Y = "+me.getY();

t1.setText(msg);

}

public void mouseEntered(MouseEvent me) {}

public void mouseExited(MouseEvent me) {}

// Handle button pressed.

public void mousePressed(MouseEvent me) {}

// Handle button released.

public void mouseReleased(MouseEvent me) {}

// Handle mouse dragged.

public void mouseDragged(MouseEvent me) {}

// Handle mouse moved.

public void mouseMoved(MouseEvent me)

 {

msg = "Mouse Moved at X = "+me.getX()+" Y = "+me.getY();

t1.setText(msg);

}

     public static void main(String[] args)

 {

    new Slip8\_2 ();

     }

}