```java
public class CBT110BakshiSaket
{
        public static void main(String[] args) {
                double[] inputs = {
                        5,
                        0.1,
                        3.3,
                        20000,
                        8
                };
                double[] areas = {
                        314.159265359,
                        0.125663706,
                        136.84777599,
                        5026548245.743669104,
                        804.247719319
                };
                double[] volumes = {
                        523.598775598,
                        4.18879E-3,
                        150.532553589,
                        3.3510321638291125E13,
                        2144.660584851
                };
                int passed = 0;
                double r, a, v, A, V;

                CBT109BakshiSaket c = new CBT109BakshiSaket(0);
                for(int i = 0; i < inputs.length; i++)
                {
                        r = inputs[i];
                        a = areas[i];
                        v = volumes[i];

                        c.setRadius(r);
                        A = c.getSurfaceArea();
                        V = c.getVolume();
                        if(isNear(A, a))
                                passed++;
                        else {
```

```java
                    System.out.print("FAIL: surfaceArea for radius " + r);
                    System.out.println("-- Expected " + v + ", got " + V);
                }
            }
        if(passed == 2*inputs.length)
                System.out.println("PASS: All tests passed.");
    }

    public static boolean isNear(double a, double b)
    {
        return Math.abs(a-b) < 1E-9;
    }
}
```