```
PS C:\Users\saket\Git\CSWork\JAVA\CBT\CBT108BakshiSaket> java CBT108Driver
PASS: surfaceArea for 5.0
PASS: volume for 5.0
PASS: surfaceArea for 0.1
PASS: volume for 0.1
PS C:\Users\saket\Git\CSWork\JAVA\CBT\CBT108BakshiSaket>
```

```
public class CBT108BakshiSaket
{
	double radius;

	public void setRadius(double r)
	{
		radius = r;
	}

	public double getRadius()
	{
		return radius;
	}

	public double getSurfaceArea()
	{
		return 4.0*Math.PI*radius*radius;
	}

	public double getVolume()
	{
		return 4*Math.PI*Math.pow(radius,3) / 3.0;
	}
}
public class CBT108Driver
{
	public static void main(String[] args) {
		CBT108BakshiSaket c = new CBT108BakshiSaket();

		c.setRadius(5);
		if(isNear(c.getSurfaceArea(), 314.159265359))
			System.out.println("PASS: surfaceArea for " + c.getRadius());
		else
			System.out.println("FAIL: surfaceArea not what was expected!");
		if(isNear(c.getVolume(), 523.598775598))
			System.out.println("PASS: volume for " + c.getRadius());
		else
			System.out.println("FAIL: volume not what was expected!");
```

```
		c.setRadius(0.1);
		if(isNear(c.getSurfaceArea(), 0.125663706))
			System.out.println("PASS: surfaceArea for " + c.getRadius());
		else
			System.out.println("FAIL: surfaceArea not what was expected!");
		if(isNear(c.getVolume(), 4.18879E-3))
			System.out.println("PASS: volume for " + c.getRadius());
		else
			System.out.println("FAIL: volume not what was expected!");
	}

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