```
//24CE1056 DHRUVI HEGDE
```

```
import java.util.Scanner;
class Radius{
double r;
void getRadius()
{
Scanner sc = new Scanner(System.in);
System.out.println("enter radius:");
r=sc.nextDouble();
}
}
class Circle extends Radius{
void findArea()
double area = 3.14*r*r;
System.out.println("the area of the circle is"+area);
}
}
class Sphere extends Circle{
void findVolume()
{
double volume =(4.0/3.0)*r*r*r;
System.out.println("the volume of sphere is"+volume);
```

```
}
}
class expt8
{
public static void main(String args[])
{
Sphere s = new Sphere();
s.getRadius();
s.findArea();
s.findVolume();
}
}
```

C:\Users\Admin\Desktop\24CE1056>javac expt8.java

C:\Users\Admin\Desktop\24CE1056>java expt8.java enter radius:

49.0

the area of the circle is7539.14 the volume of sphere is156865.3333333333

C:\Users\Admin\Desktop\24CE1056>