```java
//abstract class solid: cylinder,cone,sphere
//find surface-area and volume

import java.util.Scanner;
import java.lang.Math;

abstract class Solid{
    int radius,height;
    Solid(int r,int h){
        radius = r;
        height = h;
    }
    Solid(int r){
        radius = height = r;
    }
    abstract void surfacearea();
    abstract void volume();
}

class cylinder extends Solid{
    cylinder(int r,int h){
        super(r,h);
    }
    void surfacearea(){
        System.out.println("Surface area of cylinder: "+ (2*3.14*radius*(radius + height)));
    }
    void volume(){
        System.out.println("Surface area of cylinder: "+ (3.14*radius*radius*height));
    }
}
class cone extends Solid{
    cone(int r,int h){
        super(r,h);
    }
    void surfacearea(){
        System.out.println("Surface area of cone: "+ (2*3.14*radius*Math.sqrt(radius*radius + height*height)));
    }
    void volume(){
        System.out.println("Volume of cone: "+ (3.14*radius*radius*height/3));
    }
}
class sphere extends Solid{
    sphere(int r){
        super(r);
    }
    void surfacearea(){
        System.out.println("Surface area of sphere: "+ (4*3.14*radius*radius));
    }
    void volume(){
        System.out.println("Volume of sphere: "+ (4*3.14*radius*radius*radius/3));
    }
}

class SolidDemo{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        int r,h,choice;
        while(true){
            System.out.print("Enter choice: 1.Cylinder 2.Cone 3.Sphere 4.Exit - ");
            choice = sc.nextInt();
            switch(choice){
                case 1:System.out.print("Enter radius: ");
                       r = sc.nextInt();
                       System.out.print("Enter height: ");
                       h = sc.nextInt();
                       cylinder c = new cylinder(r,h);
                       c.surfacearea();
                       c.volume();
                       break;
                case 2:System.out.print("Enter radius: ");
                       r = sc.nextInt();
                       System.out.print("Enter Height: ");
                       h = sc.nextInt();
                       cone c1 = new cone(r,h);
                       c1.surfacearea();
                       c1.volume();
                       break;
                case 3:System.out.print("Enter radius: ");
                       r = sc.nextInt();
                       sphere s = new sphere(r);
                       s.surfacearea();
                       s.volume();
                       break;
                case 4:System.exit(0);
                default:System.exit(0);
            }
        }
```

Output:

```
Enter choice: 1.Cylinder 2.Cone 3.Sphere 4.Exit - 1
Enter radius: 7
Enter height: 7
Surface area of cylinder: 615.44
Surface area of cylinder: 1077.02
Enter choice: 1.Cylinder 2.Cone 3.Sphere 4.Exit - 2
Enter radius: 7
Enter Height: 14
Surface area of cone: 688.0828380362353
Volume of cone: 718.0133333333333
Enter choice: 1.Cylinder 2.Cone 3.Sphere 4.Exit - 3
Enter radius: 7
Surface area of sphere: 615.44
Volume of sphere: 1436.0266666666666
Enter choice: 1.Cylinder 2.Cone 3.Sphere 4.Exit - 4
<<< Process finished (PID=40728). (Exit code 0)
================ READY ================
```