GitHub/CSCI155W1H1/HW1P2_Code.java

```java
 1  /*
 2  Name: Hunter Poole
 3  Date: 1/29/25
 4  Homework #: 1
 5  Problem #: 2
 6  Source File: HW1P2_Code
 7  Action: Given the radius of a circle, calculates and then prints the volume and
    surface area of the sphere for that circle.
 8  */
 9
10  import java.util.Scanner;
11
12  public class HW1P2_Code {
13      public static void main(String[] args) throws Exception {
14
15          Scanner Radius_Input = new Scanner(System.in);
16          System.out.print("Enter the radius of the circle: ");
17          float Radius = Radius_Input.nextFloat();
18
19          while (Radius <=0) {
20              System.out.print("Please enter a positive number: ");
21              Radius = Radius_Input.nextFloat();
22          }
23
24          Radius_Input.close();
25
26          // Volume = 4/3pir^3
27          // Surface Area = 4pir^2
28          double Volume = Radius * Radius * Radius * 3.1415926 * 4 / 3;
29          double Surface_Area = Radius * Radius * 3.1415926 * 4;
30
31          System.out.println("The volume of the sphere is: " + Volume + "^3");
32          System.out.println("The surface area of the sphere is: " + Surface_Area +
    "^2");
33
34      }
35  }
36
37  /* I am using VSCode, output below is the full terminal output */
38
39  /*
40  hunterpoole@Megs-MacBook-Pro Documents %  /usr/bin/env /Library/Java/
    JavaVirtualMachines/temurin-21.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExc↵
    eptio
41  nMessages -cp /Users/hunterpoole/Library/Application\ Support/Code/User/
    workspaceStorage/aa4af2d5ea8777f0c20fee4aa25f3c30/redhat.java/jdt_ws/Documents_5c3529
42  dc/bin HW1P2_Code
```

```
43
44  Enter the radius of the circle: 6
45  The volume of the sphere is: 904.7786688^3
46  The surface area of the sphere is: 452.3893344^2
47
48  hunterpoole@Megs-MacBook-Pro Documents %
49  */
```