File Edit Selection View Go Run Terminal Help — Solidmain.java - Visual Studio Code

Solidmain.java × | Personmain.java

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```java
import java.util.Scanner;
abstract class Solid{
    float r;
    float h;
}
class Cylinder extends Solid{
    double area;
    double volume;

    void calAreaVolume(){
    Scanner sc = new Scanner(System.in);
    System.out.println("enter the value of r and h:");
    r = sc.nextFloat();
    h = sc.nextFloat();
    volume = ((3.14*3.14)*r*h);
    area = (2*(3.14)*r*(r+h));
    System.out.println("the area of the cylinder:"+area);
    System.out.println("the volume of the cylinder:"+volume);
    }
}
class Sphere extends Solid{
    double area;
    double volume;
    void calAreaVolume1(){
        Scanner sc = new Scanner(System.in);
    System.out.println("enter the value of r:");
    r = sc.nextFloat();
    volume = (4*3.14*r*r*r)/3;
    area = 4*3.14*r*r;
    System.out.println("the area of the sphere:"+area);
    System.out.println("the volume of the sphere:"+volume);
    }
}
```

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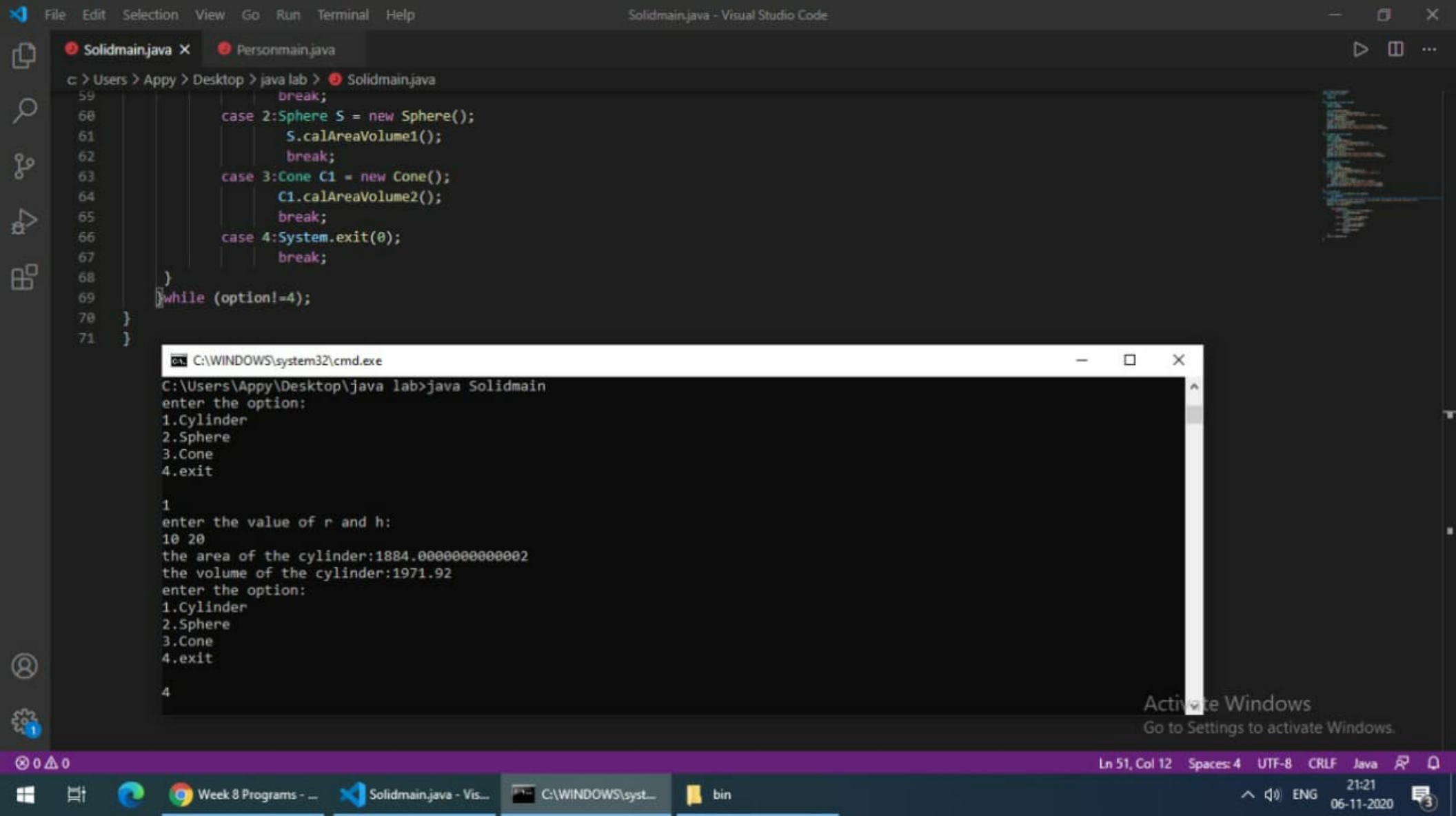
```
34  class Cone extends Solid{
35      double area;
36      double volume;
37       void calAreaVolume2(){
38      Scanner sc = new Scanner(System.in);
39      System.out.println("enter the value of r and h:");
40      r = sc.nextFloat();
41      h = sc.nextFloat();
42          volume = (3.14*r*r*h)/3;
43          area = 3.14*r*(r + Math.sqrt(r*r + h*h));
44          System.out.println("the area of the cone:"+area);
45      System.out.println("the volume of the cone:"+volume);
46      }
47  }
48  class Solidmain{
49      public static void main(String args[]){
50          int option;
51          do{
52      System.out.println("enter the option: \n1.Cylinder \n2.Sphere \n3.Cone \n4.exit \n");
53      Scanner sc = new Scanner(System.in);
54      option = sc.nextInt();
55
56          switch(option){
57              case 1:Cylinder C = new Cylinder();
58                     C.calAreaVolume();
59                     break;
60              case 2:Sphere S = new Sphere();
61                      S.calAreaVolume1();
62                      break;
63              case 3:Cone C1 = new Cone();
64                     C1.calAreaVolume2();
65                     break;
66              case 4:System.exit(0);
```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Solidmain.java
Personmain.java
c: > Users > Appy > Desktop > java lab > Solidmain.java
break;
case 2:Sphere S = new Sphere();
S.calAreaVolume1();
break;
case 3:Cone C1 = new Cone();
C1.calAreaVolume2();
break;
case 4:System.exit(0);
break;
}
}while (option!=4);
}
}
C:\WINDOWS\system32\cmd.exe
C:\Users\Appy\Desktop\java lab>java Solidmain
enter the option:
1.Cylinder
2.Sphere
3.Cone
4.exit
1
enter the value of r and h:
10 20
the area of the cylinder:1884.0000000000002
the volume of the cylinder:1971.92
enter the option:
1.Cylinder
2.Sphere
3.Cone
4.exit
4
Activate Windows
Go to Settings to activate Windows.
Ln 51, Col 12 Spaces: 4 UTF-8 CRLF Java
Week 8 Programs - ...
Solidmain.java - Vis...
C:\WINDOWS\syst...
bin
ENG
21:21
06-11-2020