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1 //Write a C++ program to find volume of cube, cylinder, sphere by function overloading
2
3 #include<iostream>
4 using namespace std;
5 float vol(int,int);
6 float vol(float);
7 int vol(int);
8
9 int main()
10 {
11     int r,h,a;
12     float r1;
13     cout<<"Enter radius and height of a cylinder:";
14     cin>>r>>h;
15     cout<<"Enter side of cube:";
16     cin>>a;
17     cout<<"Enter radius of sphere: ";
18     cin>>r1;
19     cout<<"\nVolume of cylinder is "<<vol(r,h);
20     cout<<"\nVolume of cube is "<<vol(a);
21     cout<<"\nVolume of sphere is "<<vol(r1);
22     return 0;
23 }
24 float vol(int r,int h)
25 {
26     return(3.14*r*r*h);
27 }
28 float vol(float r1)
29 {
30     return((4*3.14*r1*r1*r1)/3);
31 }
```

```
main.cpp
22     |     return 0;
23 }
24 float vol(int r,int h)
25 {
26     |     return(3.14*r*r*h);
27 }
28 float vol(float r1)
29 {
30     |     return((4*3.14*r1*r1*r1)/3);
31 }
32 int vol(int a)
33 {
34     |     return(a*a*a);
35 }
36
37
input
Enter radius and height of a cylinder:10
20
Enter side of cube:5
Enter radius of sphere: 3
Volume of cylinder is 6280
Volume of cube is 125
Volume of sphere is 113.04

...Program finished with exit code 0
Press ENTER to exit console.[]
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