

Practical 1.(c)

Aim: Write a C++ program to find the volume of a square, cone and rectangle.

Algorithm:(i)Start

(ii)Main function

(iii)Formula

(iv)Print the result

(v)Stop

Theory:In this practical,we will see a C++ program to find the volume of a square, cone and rectangle.

Program:

```
#include <iostream>
```

```
int main() {
```

```
    std::cout<<"08_Rabin Nadar";
```

```
    const float pi=3.14159;
```

```
    float r,h,l,b,s,vol;
```

```
    std::cout<<"\nEnter the radius and height of the cone: ";
```

```
    std::cin>>r>>h;
```

```
    //Cone's volume.
```

```
    vol=(1.0/3.0)*pi*(r*r)*h;
```

```
std::cout<<"\n\nThe volume of the Cone is: "<<vol;
std::cout<<"\n\nEnter the length,breadth and height of a
Rectangle: ";
std::cin>>l>>b>>h;
//Rectangle's volume.
vol=(l*b*h);
std::cout<<"\n\nThe volume of the Rectangle is: "<<vol;
```

```
std::cout<<"\n\nEnter the side of a Square: ";  
std::cin>>s;  
//Square's volume.  
vol=(s*s*s);  
std::cout<<"\nThe volume of a Square is: "<<vol;  
return 0;  
}
```

Output:

Output Clear

```
/tmp/l8yTESlKMJ.o  
08_Rabin Nadar  
Enter the radius and height of the cone: 4 7  
The volume of the Cone is: 117.286  
  
Enter the length,breadth and height of a Rectangle: 10 8 7  
The volume of the Rectangle is: 560  
  
Enter the side of a Square: 17  
The volume of a Square is: 4913|
```

Conclusion:

We have successfully written the code and executed it.