

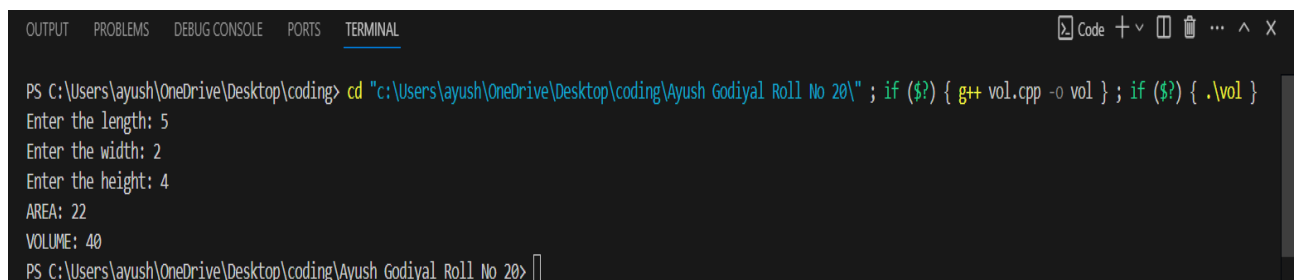
5. Implement a C++ program to demonstrate the concept of data abstraction using the concept of class and objects.

SOURCE CODE:

```
#include<iostream>
#include<string>
using namespace std;
class room
{
    private:
    double length;
    double width;
    double height,calarea,calvol;
    public:
    void area()
    {
        cout<<"Enter the length: ";
        cin>>length;
        cout<<"Enter the width: ";
        cin>>width;
        cout<<"Enter the height: ";
        cin>>height;
        calarea=2*(length+width+height);
    }

    void vol()
    {
        calvol=length*width*height;
    }

    void display()
    {
        cout<<"AREA: "<<calarea<<endl;
        cout<<"VOLUME: "<<calvol<<endl;
    }
};
int main()
{
    room r;
    r.area();
    r.vol();
    r.display();
}
```



```
OUTPUT  PROBLEMS  DEBUG CONSOLE  PORTS  TERMINAL
PS C:\Users\ayush\OneDrive\Desktop\coding> cd "c:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20\" ; if ($?) { g++ vol.cpp -o vol } ; if ($?) { .\vol }
Enter the length: 5
Enter the width: 2
Enter the height: 4
AREA: 22
VOLUME: 40
PS C:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20>
```