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<p>OUTPUT</p>	<pre>The program can calculate the area of a reactangle, the area of circle or volume of a cylinder To run the program enter: 1: To find the area of rectangle. 2: To find the area of circle. 3: To find the area of cylinder. -1: To terminate the program 1 Enter the length and width of rectangle 5 5 Area = 25.00 To run the program enter: 1: To find the area of rectangle. 2: To find the area of circle. 3: To find the area of cylinder. -1: To terminate the program 2 Enter the radius of circle 6 Area = 113.11 To run the program enter: 1: To find the area of rectangle. 2: To find the area of circle. 3: To find the area of cylinder. -1: To terminate the program 3 Enter the radius and height of cylinder 8 5 Volume = 1005.41 To run the program enter: 1: To find the area of rectangle. 2: To find the area of circle. 3: To find the area of cylinder. -1: To terminate the program -1 ...Program finished with exit code 0 Press ENTER to exit console.</pre>
<p>CODING</p>	<pre>#include <iostream> #include <iomanip> using namespace std; const double PI = 3.1419; double rectangle(double l,double w); double circle(double r); double cylinder(double bR,double h); int main() { double radius,height; int choice; cout<<fixed<<showpoint<<setprecision(2)<<endl; cout<<"The program can calculate the area of a reactangle, " <<"the area of circle or volume of a cylinder"<<endl; cout<<"To run the program enter: "<<endl; cout<<"1: To find the area of rectangle. "<<endl; cout<<"2: To find the area of circle. "<<endl; cout<<"3: To find the area of cylinder. "<<endl;</pre>

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cout<<"-1: To terminate the program "<<endl;
cin>>choice;
cout<<endl;

while(choice != -1){
    switch(choice){

        case 1:
            double length , width;
            cout<<"Enter the length and width of rectangle "<<endl;
            cin>>length>>width;
            cout<<endl;
            cout<<"Area = "<<rectangle(length,width)<<endl;
            break;

        case 2:
            cout<<"Enter the radius of circle"<<endl;
            cin>>radius;
            cout<<endl;
            cout<<"Area = "<<circle(radius)<<endl;
            break;

        case 3:
            cout<<"Enter the radius and height of cylinder"<<endl;
            cin>>radius>>height;
            cout<<endl;
            cout<<"Volume = "<<cylinder(radius,height)<<endl;
            break;

        default :
            cout<<"Invalid choice"<<endl;

    }

    cout<<"To run the program enter: "<<endl;
    cout<<"1: To find the area of rectangle. "<<endl;
    cout<<"2: To find the area of circle. "<<endl;
    cout<<"3: To find the area of cylinder. "<<endl;
    cout<<"-1: To terminate the program "<<endl;
    cin>>choice;
    cout<<endl;

}

return 0;
}

double rectangle(double l, double w){
    return l * w;
}

double circle(double r){

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	<pre> return PI*r*r;//not w it should be r } double cylinder(double bR, double h){ return PI*bR*bR*h; }</pre>
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