#include<iostream.h>

#include<conio.h>

void main()

{

clrscr();

int a,l,b,h,r,opt;

float tsa,vol;

const float pi=3.14;

cout<<"\n 1-Cube's TSA And Volume";

cout<<"\n\n 2-Sphere's TSA And Volume";

cout<<"\n\n 3-Cuboid's TSA And Volume";

cout<<"\n\n Enter Your Option:";

cin>>opt;

switch(opt)

{

case 1:cout<<"\n\n Enter Sides Of Cube:";

cin>>a;

vol=a\*a\*a;

cout<<"\n Volume Of The Cube Is:"<<vol;

tsa=6\*a\*a;

cout<<"\n TSA Of The Cube Is:"<<tsa;

break;

case 2:cout<<"\n Enter Radius Of The Sphere:";

cin>>r;

vol=4/3\*pi\*r\*r\*r;

cout<<"\n Volume Of The Sphere Is:"<<vol;

tsa=4\*pi\*r\*r;

cout<<"\n TSA of The Sphere Is"<<tsa;

break;

case 3:cout<<"\n Enter Length:";

cin>>l;

cout<<"\n Enter Hieght:";

cin>>h;

cout<<"\n Enter Breadth:";

cin>>b;

vol=l\*b\*h;

cout<<"\n The Volume Of Cuboid Is:"<<vol;

tsa=2\*(l\*b+b\*h+h\*l);

cout<<"\n TSA Of Cuboid Is:"<<tsa;

break;

}

getch();

}

OUTPUT: 