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3      Online C Compiler.
4      Code, Compile, Run and Debug C program online.
5      Write your code in this editor and press "Run" button to compile and execute it.
6
7      *****/
8
9      #include <stdio.h>
10     #include<math.h>
11     #include<stdlib.h>
12     int main()
13     {
14         int z,r,h;
15         float pi=3.14;
16         while(z)
17         {
18             printf(" area and volume of \n 1:cylinder\n2:cone\n3:sphere\n4 to exit");
19             printf("enter the choice\n");
20             scanf("%d",&z);
21             printf("enter the radius\n");
22             scanf("%d",&r);
23             printf("enter the height\n");
24             scanf("%d",&h);
25             switch(z)
26             {
27                 int A,V;
28                 case 1:
29                     A=2*pi*r*h+2*pi*r*r;
30                     V=pi*r*r*h;
31                     printf("AREA:%d\n",A);
32                     printf("VOLUME:%d\n",V);
33                     break;
34                 case 2:
35                     A=pi*(r)*(r+sqrt(h*h+r*r));
36                     V=pi*r*r*h/3;
37                     printf("AREA:%d\n",A);
38                     printf("VOLUME:%d\n",V);

```

```

14 int z,r,h;
15 float pi=3.14;
16 while(z)
17 {
18     printf(" area and volume of \n 1:cylinder\n2:cone\n3:sphere\n4 to exit");
19     printf("enter the choice\n");
20     scanf("%d",&z);
21     printf("enter the radius\n");
22     scanf("%d",&r);
23     printf("enter the height\n");
24     scanf("%d",&h);
25     switch(z)
26     {
27         int A,V;
28         case 1:
29             A=2*pi*r*h+2*pi*r*r;
30             V=pi*r*r*h;
31             printf("AREA:%d\n",A);
32             printf("VOLUME:%d\n",V);
33             break;
34         case 2:
35             A=pi*(r)*(r+sqrt(h*h+r*r));
36             V=pi*r*r*h/3;
37             printf("AREA:%d\n",A);
38             printf("VOLUME:%d\n",V);
39             break;
40         case 3:
41             A=4*pi*r*r;
42             V=(4/3)*pi*r*r*r;
43             printf("AREA:%d\n",A);
44             printf("VOLUME:%d\n",V);
45             break;
46         case 4:
47             exit(0);
48             break;
49     }
50 }
51

```

```
area and volume of
1:cylinder
2:cone
3:sphere
:4 to exitenter the choice
2
enter the radius
7
enter the height
9
AREA:404
VOLUME:461
```