```
#include<stdio.h>
  2 #include <math.h>
     int main()
 4- {
          float area, volume, r, h;
          int i,flag=0;
float pi=3.14;
          do
 9 -
         printf("Enter 1:Cylinder\n2:Cone\n3:sphere\n4:exit\n");
scanf("%d",&i);
switch(i)
10
11
12
14
                    case 1:
                   printf("enter radius\n");
scanf("%f",&r);
printf("enter hieght\n");
scanf("%f",&h);
area=(2*pi*r*h)+(2*pi*r*r);
15
16
17
18
19
                    volume=(pi*r*r*h);
20
                    printf("the area and volume of cylinder is %f and %f\n",area,volume);
21
                    break;
22
                                                                                                                                 I
                    case 2:
23
                    printf("enter radius\n");
24
                    scanf("%f",&r);
printf("enter hieght\n");
25
26
                    scanf("%f",&h);
27
                    area=pi*r*(r+sqrt((h*h)+(r*r)));
28
                    volume=pi*r*r*(h/3);
printf("the area and volume of cone is %f and %f\n",area,volume);
29
30
                    break;
31
                    case 3:
32
                    printf("enter radius\n");
33
                    scanf("%f",&r);
34
                    area=4*pi*r*r;
35
                    volume=(4/3)*pi*r*r*r;
36
                                                                                                 input
```

```
switch(i)
12
13 -
                  case 1:
14
                  printf("enter radius\n");
15
                  scanf("%f",&r);
printf("enter hieght\n");
16
17
                  scanf("%f",&h);
18
                  area=(2*pi*r*h)+(2*pi*r*r);
volume=(pi*r*r*h);
19
20
                  printf("the area and volume of cylinder is %f and %f\n",area,volume);
21
                  break;
22
                  case 2:
23
                  printf("enter radius\n");
24
                  scanf("%f",&r);
25
                  printf("enter hieght\n");
26
                  scanf("%f",&h);
area=pi*r*(r+sqrt((h*h)+(r*r)));
volume=pi*r*r*(h/3);
27
28
29
                  printf("the area and volume of cone is %f and %f\n",area,volume);
30
                  break;
31
                  case 3:
32
                  printf("enter radius\n");
 33
                  scanf("%f",&r);
 34
                  area=4*pi*r*r;
volume=(4/3)*pi*r*r*r;
 35
 36
                  printf("the area and volume of sphere is %f and %f\n",area,volume);
 37
                   break;
 38
                   case 4:
 39
                   flag=1;
 40
                   break;
 41
 42
 43
              while(flag!=1);
 44
 45
 46 return 0;
```

```
printf("enter radius\n");
scanf("%f",&r);
  15
16
V / 3
                                                                                        input
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
enter radius
enter hieght
the area and volume of cylinder is 50.240002 and 25.120001
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
                                                                                                                                       I
enter radius
enter hieght
the area and volume of cone is 30.322523 and 8.373334
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
enter radius
the area and volume of sphere is 50.240002 and 25.120001
                                                                                                                                                  A TO (C do) A FING
```

```
input
Y / A
4:exit
enter radius
enter hieght
the area and volume of cone is 30.322523 and 8.373334
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
enter radius
the area and volume of sphere is 50.240002 and 25.120001
Enter 1:Cylinder
2:Cone
3:sphere
 4:exit
 enter radius
 the area and volume of sphere is 113.040001 and 84.779999
 Enter 1:Cylinder
 2:Cone
 3:sphere
 4:exit
```

```
# include <sldio h>
1 6
      # include < math. h>
      int main ()
       float arua, volum, e, h;
       int i, t=0;
       Hoat pi = 3.14;
        print (" teller 1. aglinder In 2. come In 3. sphere Ingenit");
        scary (" / d", fi);
       switch (i) print[ ("Enter choice In");
                  scary (" 1.d", 4i)
       & switch (i) {
       case 1: print ("enter radius In");
               scary (" / 1", 4 m);
              puint ("enter height in");
              scarf (" / 6", 4h);
              aua = (2*pi + exh) + (2 * pi * exh);
              volume: (pi * 4 * 4 + h);
             print (" Area and volume of Cylindu is 1.1 and
            1. f m', arrea, volume);
            prints ("enter radius and height in");
            scary (" / f 1/1", fx, 4h);
            aua = pi * 4 + (4 + squit ((h + h) + (4 + 11)));
           Volume = pi + h + h + (h/3);
```

50 .

```
printy (" Area and volume of
                                  come is 1.1 and 1.7 m",
        area, volume);
break;
         print ("enter radius (n");
Case 3:
          scary (" /- | ", 4 m);
          aua = 4 * pi * M * M;
          Volume = (4/3) x pi x x x x x x x,
                                                  1.1 and 1.4 m,
          brunt ("Thea and volume of sphere are
               aria, volume);
            briak;
  case 4: t=1;
           bruak;
return 0;
      Easter 1. Cylinder
             3. Sphere
              4. enit
             Enter the choice: 1
             Area and Volume of afunda
```

enter the radius; 2 Enter the height: 2 25 120000 Arra and volume of sytunder are 50.24000 and 1. Cylinder 2. Come 3. Sphere Enter the choice: 2 Enter radius and height: are 30.144000 and Area and volume of tog come 8,373333. 1. Cylinder 2. Come 3. Sphere 4. enit Enter the shoice: 3 Enter radius: 2 of sphere are 50.24 and 33.49. arra Arra and volume 1. Cylindu chora: 4 entre the 2. Coul 3. sphere enil.

4. mit

```
7. # include (stdio.h)
   # include < string. h>
    void main ()
            name [100] [100];
        char
        int stud, il, c;
        int i:0;
         int j = 0;
         inh k = 0',
            printf ("Enter the number of students:");
            scary (" 1. ox", 4 stud);
            print (" Enter name of studend and course
                  In 2. for instance of things in
                   2. for advanced journ and JZEE
                 In 3. for advanced data structure in");
            for (1 = 0; l < stud; l++)
              sland (" 1.5 1.d", name [i], 4();
                       ; l < stud; l++ 1)
```

```
U) ((== 1)
        i++;
    i ( c = = 2)
      j++;
    if ((==3)
       k ++;
while ((i <30) 11 (j (30) 11 (dx (30));
Brief (" students in internet of things = 1.d", i);
                 in advanced java and JZEE: 7.d", j);
print (" students
print ("students in advanced data structure; 1.d", k);
```