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```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     float r,h,area,volume;
6     int opt;
7     char ch;
8     const float pi=3.14;
9     do{
10         printf("For which shape do you want to calculate Area and Volume: \n");
11         printf("\n OPTIONS:\n1-Cylinder\n2-Cone\n3-Sphere\n");
12         scanf("%d",&opt);
13         switch(opt){
14             case 1:
15                 printf("\nEnter the radius of cylinder: ");
16                 scanf("%f",&r);
17                 printf("\nEnter the height of cylinder: ");
18                 scanf("%f",&h);
19                 area = (2*pi*r*h) + (2*pi*r*r);
20                 volume = pi*r*r*h;
21                 printf("\n Area : %f",area);
22                 printf("\n Volume : %f",volume);
23                 break;
24             case 2:
25                 printf("\nEnter the radius of Cone: ");
26                 scanf("%f",&r);
27                 printf("\nEnter the height of Cone: ");
28                 scanf("%f",&h);
29                 area = pi*r*(r+sqrt((h*h + r*r)));
30                 volume = pi*r*r*(h/3);
31                 printf("\n Area : %f",area);
32                 printf("\n Volume : %f",volume);
33                 break;
34             case 3:
35                 printf("\nEnter the radius of Sphere: ");
36                 scanf("%f",&r);
```

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```
16 scanf("%f",&r);
17 printf("\nEnter the height of cylinder: ");
18 scanf("%f",&h);
19 area = (2*pi*r*h) + (2*pi*r*r);
20 volume = pi*r*r*h;
21 printf("\n Area : %f",area);
22 printf("\n Volume : %f",volume);
23 break;
24 case 2:
25 printf("\nEnter the radius of Cone: ");
26 scanf("%f",&r);
27 printf("\nEnter the height of Cone: ");
28 scanf("%f",&h);
29 area = pi*r*(r+sqrt((h*h + r*r)));
30 volume = pi*r*r*(h/3);
31 printf("\n Area : %f",area);
32 printf("\n Volume : %f",volume);
33 break;
34 case 3:
35 printf("\nEnter the radius of Sphere: ");
36 scanf("%f",&r);
37 area = 4*pi*r*r;
38 volume = (4/3)*pi*r*r*r;
39 printf("\n Area : %f",area);
40 printf("\n Volume : %f",volume);
41 break;
42 default:
43 printf("Enter a valid option!!");
44 break;
45 }
46 printf("\nDo you want to repeat the operation Y/N:\n ");
47 scanf("%s", &ch);
48 }
49 while (ch == 'y' || ch == 'Y');
50 return 0;
51 }
```



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LanguageC

main.c

16scanf("%f",&r);

17printf("\nEnter the height of cylinder: ");

18scanf("%f",&h);

19area = (2*pi*r*h) + (2*pi*r*r);

20volume = pi*r*r*h;

21printf("\n Area : %f",area);

22printf("\n Volume : %f",volume);

23break;

24case 2:

25printf("\nEnter the radius of Cone: ");

26scanf("%f",&r);

27printf("\nEnter the height of Cone: ");

28scanf("%f",&h);

input

For which shape do you want to calculate Area and Volume:

OPTIONS:

1-Cylinder

2-Cone

3-Sphere

1

Enter the radius of cylinder: 2

Enter the height of cylinder: 4

Area : 75.360001

Volume : 50.240002

Do you want to repeat the operation Y/N:

N

...Program finished with exit code 0

Press ENTER to exit console.

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main.c

```
1 #include<stdio.h>
2 void main()
3 {
4     int internal_marks,external_marks,x, total_marks;
5     printf("Enter the CIE and SEE marks respectively ");
6     scanf("%d%d",&internal_marks,&external_marks);
7     x= (external_marks/2);
8     total_marks= x+internal_marks;
9     if (total_marks<100 && total_marks>=90)
10 {
11     printf("Grade is S");
12 }
13 else if (total_marks<90 && total_marks>=80)
14 {
15     printf("Grade is A");
16 }
17 else if (total_marks<80 && total_marks>=70)
18 {
19     printf("Grade is B");
20 }
21 else if (total_marks<70 && total_marks>=60)
22 {
23     printf("Grade is C");
24 }
25 else if (total_marks<60 && total_marks>=40)
26 {
27     printf("Grade is D");
28 }
29 else
30 {
31     printf ("Grade is Fail");
32 }
33 }
```



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Language C

main.c

```
1 #include <stdio.h>
2 int main() {
3     int low, high, i, flag;
4     printf("Enter two numbers :");
5     scanf("%d %d", &low, &high);
6     printf("Prime numbers between %d and %d are: ", low, high);
7     while (low <= high) {
8         flag = 0;
9         if (low <= 1) {
10             ++low;
11             continue;
12         }
13         for (i = 2; i <= low / 2; ++i)
14         {
15             if (low % i == 0) {
16                 flag = 1;
17                 break;
18             }
19         }
20
21         if (flag == 0)
22             printf("%d ", low);
23         ++low;
24     }
25
26     return 0;
27 }
```

input

Enter two numbers :1 2
Prime numbers between 1 and 2 are: 2
...Program finished with exit code 0
Press ENTER to exit console.

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Language C

main.c

```
1 #include<stdio.h>
2 void main()
3 {
4 int internal_marks,external_marks,x, total_marks;
5 printf("Enter the CIE and SEE marks respectively ");
6 scanf("%d%d",&internal_marks,&external_marks);
7 x= (external_marks/2);
8 total_marks= x+internal_marks;
9 if (total_marks<100 && total_marks>=90)
10 {
11 printf("Grade is S");
12 }
13 else if (total_marks<90 && total_marks>=80)
14 {
15 printf("Grade is A");
16 }
17 else if (total_marks<80 && total_marks>=70)
18 {
19 printf("Grade is B");
20 }
21 else if (total_marks<70 && total_marks>=60)
22 {
23 printf("Grade is C");
```

input

```
Enter the CIE and SEE marks respectively 45 95
Grade is S

...Program finished with exit code 10
Press ENTER to exit console.
```

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```
main.c
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,j,count=0;
5     printf("Enter the number of rows: ");
6     scanf("%d",&n);
7     for(i=1;i<=n;i++)
8     {
9         printf("\n");
10        for(j=1;j<=i;j++)
11        {
12            count++;
13            printf("%d\t",count);
14        }
15    }
16    return 0;
17
18 }
```

input

Enter the number of rows: 4

1			
2	3		
4	5	6	
7	8	9	10

...Program finished with exit code 0
Press ENTER to exit console.