

3

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
int main ()
```

```
{
```

```
    int i, j, n, num = 1;
```

```
    printf("Enter the value of n:");
```

```
    scanf("%d", &n);
```

```
    for (i = 1; i <= n; i++)
```

```
    {
```

```
        for (j = 1; j <= i; j++)
```

```
        {
```

```
            printf("%d", num);
```

```
            num++;
```

```
        }
```

```
        printf("\n");
```

```
    }
```

```
    return 0;
```

```
}
```

④. #include <stdio.h>

int main();

{

int marks 1, marks 2;

printf("enter the CIE marks:");

scanf("%d", &marks 1);

printf("enter the SEE marks:");

scanf("%d", &marks 2);

if (marks 1 < 20)

printf("grade is f");

elseif (marks 2 >= 90);

printf("grade is A");

elseif (marks 2 >= 80);

printf("grade is B");

elseif (marks 2 >= 70);

printf("grade is C");

~~elseif ("grade is~~

elseif (marks 2 >= 60);

printf("grade is D");

elseif (marks 2 >= 40);

printf("grade is F");

else

printf("grade is F");

}

```

⑤ #include <stdio.h>
int checkPrimeNumber (int n);
int main () {
    int n1, n2, i, flag;
    printf ("Enter two positive integers:");
    scanf ("%d %d", &n1, &n2);
    printf ("Prime numbers between %d and %d are ;", n1, n2);
    for (i = n1 + 1; i < n2; ++i)
    {
        flag = checkPrimeNumber (i);
        if (flag == 1)
            printf ("%d", i);
    }
    return 0;
}

```

```

int checkPrimeNumber (int n)
{
    int j, flag = 1;
    for (j = 2; j <= n / 2; ++j)
    {
        if (n % j == 0)
        {
            flag = 0;
            break;
        }
    }
    return flag;
}

```

```
⑥ #include <stdio.h>
#include <math.h>
```

```
int main()
```

```
{
```

```
float area, volume, r, h;
```

```
int i, n, t;
```

```
float pi = 3.14;
```

```
printf("Enter how many times you want to run  
program (n);
```

```
scanf("%d", &n);
```

```
for (t = 0; t < n; t++)
```

```
{
```

```
printf("Enter 1: cylinder, 2: cone, 3: sphere (n);
```

```
scanf("%d", &i);
```

```
switch(i){
```

```
case 1:
```

```
printf("Enter radius and height (n);
```

```
scanf("%f, %f", &r, &h);
```

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

```
volume = (pi * r * r * h);
```

```
printf("The area and volume of cylinder  
is %f (n", area, volume);
```

```
break;
```

```
case 2:
```



```
printf ("Enter radius and height\n");
```

```
scanf ("%f %f", &r, &h);
```

```
area = pi * r * (r + sqrt ((h * h) + (r * r)));
```

```
Volume = pi * r * (h/3);
```

```
printf ("the area and volume of cone is %f  
and %f\n", area, Volume);
```

```
break;
```

```
case 3:
```

```
printf ("Enter radius\n");
```

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

```
area = 4 * pi * r * r;
```

```
Volume = (4/3) * pi * r * r * r;
```

```
printf ("the area and volume of  
sphere is %f and %f\n", area, Volume);
```

```
break;
```

```
}
```

```
}
```

```
return 0;
```

```
}
```



*main.c x

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int i,j,n,num=1;
7      printf("enter the value of n:");
8      scanf("%d",&n);
9      for(i=1;i<=n;i++)
10     {
11         for(j=1;j<=i;j++)
12         {
13             printf("%d",num);
14             num++;
15         }
16         printf("\n");
17     }
18     return 0;
19 }
20
21
22
23
```

enter the value of n:2

1

23

Process returned 0 (0x0) execution time : 15.198 s
Press any key to continue.

```

5  {
6      int marks1, marks2;
7      printf ("enter the CIE marks:");
8      scanf ("%d", &marks1);
9      printf ("enter the SEE marks:");
10     scanf ("%d", &marks2);
11     if (marks1 < 20)
12         printf ("grade is f ");
13     else if (marks2 >= 90)
14         printf ("grade is A ");
15     else if (marks2 >= 80)
16         printf ("grade is B ");
17     else if (marks2 >= 70)
18         printf ("grade is C");
19     else if (marks2 >= 60)
20         printf ("grade is D ");
21     else if (marks2 >= 40)
22         printf ("grade is E ");
23     else
24         printf("grade is F");
25 }
26
27
28

```



```

22     volume=(pi*r*r*h);
23     printf("the area and volume of cylinder is %f and %f\n",area,volume);
24     break;
25     case 2:
26     printf("enter radius and height\n");
27     scanf("%f,%f",&r,&h);
28     area=pi*r*(r+sqrt((h*h)+(r*r)));
29     volume=pi*r*r*(h/3);
30     printf("the area and volume of cone is %f and %f\n",area,volume);
31     break;
32     case 3:
33     printf("enter radius\n");
34     scanf("%f",&r);
35     area=4*pi*r*r;
36     volume=(4/3)*pi*r*r*r;
37     printf("the area and volume of sphere is %f and %f\n",area,volume);
38     break;
39     }
40 }
41
42 return 0;
43 }
44
45

```

"C:\Users\karthik sai\Documents\marks\bin\Debug\marks.exe"

enter the CIE marks:50

enter the SEE marks:70

grade is C

Process returned 0 (0x0) execution time : 17.011 s

Press any key to continue.

Cscope x Debugger x
OpenSSH;C:\Program Files
d;C:\Program Files (x86)\Brackets
e" (in C:\Users\karthik sai



*main.c x

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int i,j,n,num=1;
7      printf("enter the value of n:");
8      scanf("%d",&n);
9      for(i=1;i<=n;i++)
10     {
11         for(j=1;j<=i;j++)
12         {
13             printf("%d",num);
14             num++;
15         }
16         printf("\n");
17     }
18     return 0;
19 }
20
```

```
main.c x
1  #include<stdio.h>
2  #include <math.h>
3  int main()
4  {
5      float area,volume,r,h;
6      int i,flag=0;
7      float pi=3.14;
8      do
9      {
10         printf("Enter 1:Cylinder\n2:Cone\n3:sphere\n4:exit\n");
11         scanf("%d",&i);
12         switch(i)
13         {
14             case 1:
15                 printf("enter radius\n");
16                 scanf("%f",&r);
17                 printf("enter hieght\n");
18                 scanf("%f",&h);
19                 area=(2*pi*r*h)+(2*pi*r*r);
20                 volume=(pi*r*r*h);
21                 printf("the area and volume of cylinder is %f and %f\n",area,volume);
22                 break;
23             case 2:
24                 printf("enter radius\n");
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x

Command: C:\Users\karthik sai\AppData\Local\Microsoft\WindowsApps
Executing: "C:\Users\karthik sai\Downloads\CodeBlocks\cb_console_runner.exe" "C:\Users\karthik sai\Documents\areaandvolume\bin\Debug\areaandvolume.exe" (in C:\Users\karthik sai\Documents\areaandvolume\.)
Process terminated with status -1073741510 (0 minute(s), 13 second(s))

```
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
2
Enter radius
4
Enter hieght
2
the area and volume of cone is 106.410034 and 33.493336
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
```

```
main.c x
1  #include <stdio.h>
2  int checkPrimeNumber(int n);
3  int main() {
4      int n1, n2, i, flag;
5      printf("Enter two positive integers: ");
6      scanf("%d %d", &n1, &n2);
7      printf("Prime numbers between %d and %d are: ", n1, n2);
8      for (i = n1 + 1; i < n2; ++i)
9      {
10         flag = checkPrimeNumber(i);
11
12         if (flag == 1)
13             printf("%d ", i);
14     }
15     return 0;
16 }
17 int checkPrimeNumber(int n)
18 {
19     int j, flag = 1;
20     for (j = 2; j <= n / 2; ++j)
21     {
22         if (n % j == 0)
23         {
24             flag = 0;
25         }
26     }
27     return flag;
28 }
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x

Executing: "C:\Users\karthik sai\Downloads\CodeBlocks\cb_console_runner.exe" "C:\Users\karthik sai\Documents\primenumber\bin\Debug\primenumber.exe" (in C:\Users\karthik sai\Documents\primenumber\.)

Process terminated with status -1073741510 (0 minute(s), 19 second(s))

ments\primenumber\main.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 30, Col 1, Pos 603 Insert Read/Write default


```

7   printf("Prime numbers between %d and %d are: ", n1, n2);
8   for (i = n1 + 1; i < n2; ++i)
9   {
10      flag = checkPrimeNumber(i);
11
12      if (flag == 1)
13         printf("%d ", i);
14  }
15  return 0;
16  }
17  int checkPrimeNumber(int n)
18  {
19      int j, flag = 1;
20      for (j = 2; j <= n / 2; ++j)
21      {
22          if (n % j == 0)
23          {
24              flag = 0;
25              break;
26          }
27      }
28      return flag;
29  }
30  }

```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x

Command: C:\Users\karthik sai\AppData\Local\Microsoft\WindowsApps
 Executing: "C:\Users\karthik sai\Downloads\CodeBlocks\cb_console_runner.exe" "C:\Users\karthik sai\Documents\primenumber\bin\Debug\primenumber.exe" (in C:\Users\karthik sai\Documents\primenumber\.)
 Process terminated with status -1073741510 (0 minute(s), 19 second(s))

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```
input
Enter two positive integers: 1 6
Prime numbers between 1 and 6 are: 2 3 5
...Program finished with exit code 0
Press ENTER to exit console.
```

