

```

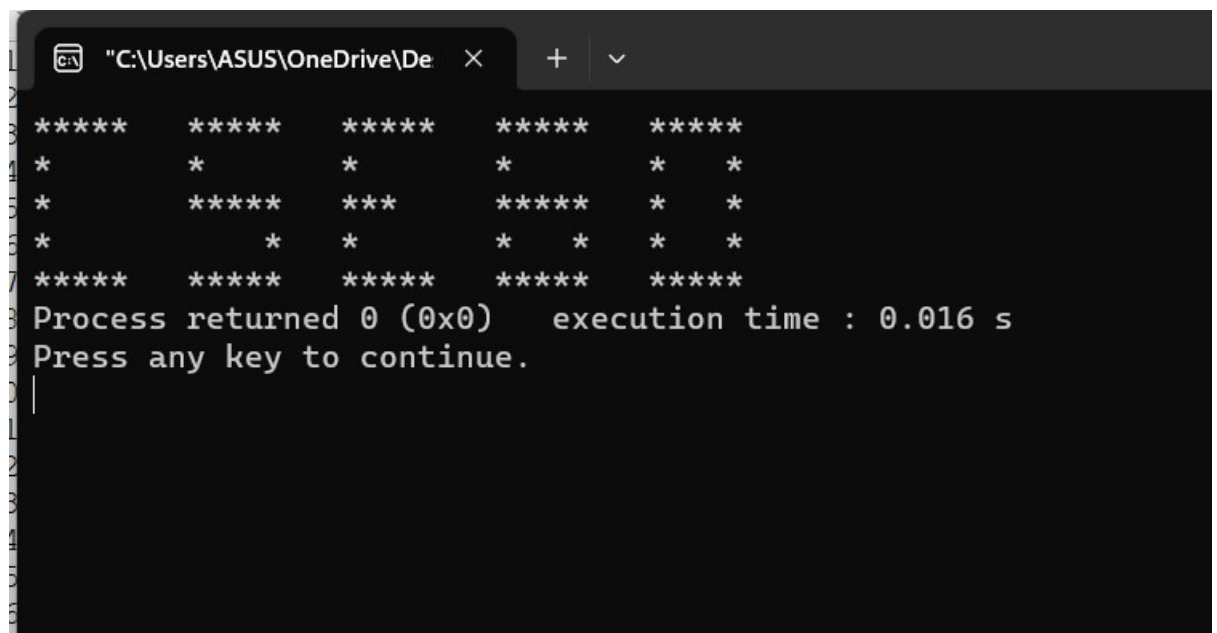
#include<stdio.h>
int main ()
{
    int i,j=0;
    for(i=1; i<=25; i++)
    {
        j++;
        printf("*");
        if(j==5||j==10||j==15||j==20||j==25)
        {
            printf(" ");
        }
    }
    printf("\n");
    j=0;
    //2nd row
    for(i=1; i<=25; i++)
    {
        j++;
        if(i==1||i==6||i==11||i==16||i==21||i==25)
        {
            printf("*");
        }
        else
        {
            printf(" ");
        }
        if(j==5||j==10||j==15||j==20||j==25)
        {
            printf(" ");
        }
    }
    printf("\n");
    j=0;
    //3rd row
    for(i=1; i<=22; i++)
    {
        j++;
        if(i==2||i==3||i==4||i==5||i==14||i==15)
        {
            printf(" ");
        }
        else
        {
            printf("*");
        }
        if(j==5||j==10||j==15||j==20||j==21)
        {
            printf(" ");
        }
    }
}

```

```

    }
}
printf("\n");
j=0;
//4th row
for(i=1; i<=25; i++)
{
    j++;
    if(i==1||i==10||i==11||i==16||i==20||i==21||i==25)
    {
        printf("*");
    }
    else
    {
        printf(" ");
    }
    if(j==5||j==10||j==15||j==20||j==25)
    {
        printf(" ");
    }
}
printf("\n");
j=0;
//5th row
for(i=1; i<=25; i++)
{
    j++;
    printf("*");
    if(j==5||j==10||j==15||j==20)
    {
        printf(" ");
    }
}
}
return 0;
}

```



```

C:\Users\ASUS\OneDrive\De  X + v
*****  *****  *****  *****  *****
*      *      *      *      *      *
*      *****  ***      *****  *      *
*              *      *      *      *      *
*****  *****  *****  *****  *****
Process returned 0 (0x0)   execution time : 0.016 s
Press any key to continue.
|

```

```

1  #include<stdio.h>
2  int main()
3  {
4      int n;
5      scanf("%d",&n);
6      int i;
7      for(i=0;i<=n;i++)
8      {
9          for(int j=1;j<=i;j++)
10         {
11             printf(" ");
12         }
13         for(int k=1;k<=n-i;k++)
14         {
15             printf("*");
16         }
17         printf("\n");
18     }
19     return 0;
20 }
21

```

5

```

*****
****
***
**
*

```

Process returned 0 (0x0) execution time : 0.911 s
Press any key to continue.

Logs & others

File	Line	Message
		=== Build file: "no tar
		=== Build finished: 0 e

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

"C:\Users\ASUS\OneDrive\De" × + ▾

```
5
    *
   **
  ***
 ****
*****
```

Process returned 0 (0x0) execution time : 1.979 s
Press any key to continue.

```
1  #include<stdio.h>
2  int main()
3  {
4      int n;
5      scanf("%d",&n);
6      for(int i=n;i>=1;i--)
7      {
8          for(int j=i;j>=1;j--)
9          {
10             printf("*");
11         }
12         printf("\n");
13     }
14 }
15
```

"C:\Users\ASUS\OneDrive\De

```
6
*****
*****
****
***
**
*
```

Process returned 0 (0x0) execution time : 3.171 s
Press any key to continue.

```
1  #include<stdio.h>
2  int main()
3  {
4      int n;
5      scanf("%d",&n);
6      for(int i=1;i<=n;i++)
7      {
8          for(int j=1;j<=i;j++)
9          {
10             printf("*");
11         }
12         printf("\n");
13     }
14 }
15
```

```
6
*
**
***
****
*****
*****
*****
```

Process returned 0 (0x0) execution time : 3.049 s
Press any key to continue.

```
1  #include<stdio.h>
2  int main()
3  {
4      int i,j;
5      for(i=0;i<=5;i++)
6      {
7          for(j=1;j<=5-i;j++)
8          {
9              printf("%d ",j);
10             }
11             printf("\n");
12         }
13         return 0;
14     }
15
```

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

Process returned 0 (0x0) execution time : 0.014 s
Press any key to continue.

File

```
Start here X 14.4.c X 14.1.c X 14.2.c X 14.3.c X dimond ass.c X 4.c X 5.c X 1.c X 2.c X 3.c X upper  
1 #include<stdio.h>  
2 int main()  
3 {  
4  
5     int i,j;  
6     for(i=1;i<=5;i++)  
7     {  
8         for(j=1;j<=i;j++)  
9         {  
10             printf("%d ",j);  
11         }  
12         printf("\n");  
13     }  
14 }  
15
```

```
"C:\Users\ASUS\OneDrive\De X + v  
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5  
  
Process returned 0 (0x0)   execution time : 0.016 s  
Press any key to continue.  
|
```

Logs & others
Code::Block
File


```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      scanf("%d %d",&a,&b);
6      for(int i=a;i<=b;i++)
7      {
8          for(int j=1;j<=i;j++)
9          {
10             if(i%j==0) printf("%d ",j);
11         }
12         printf("\n");
13     }
14     return 0;
15 }
16

```

```

3 9
1 3
1 2 4
1 5
1 2 3 6
1 7
1 2 4 8
1 3 9

```

Process returned 0 (0x0) execution time : 5.188 s
Press any key to continue.

```

1  #include<stdio.h>
2  int main()
3  {
4      int n,m;
5      scanf("%d %d",&n,&m);
6      for(int i=n;i<=m;i++)
7      {
8          int x;
9          for(int j=1;j<=10;j++)
10         {
11             x=i*j;
12             printf("%d*d=%d ",i,j,x);
13         }
14         printf("\t\n");
15     }
16     return 0;
17 }
18
19

```

"C:\Users\ASUS\OneDrive\De" × + ▾

```

13 16
13*1=13 13*2=26 13*3=39 13*4=52 13*5=65 13*6=78 13*7=91 13*8=104 13*9=117 13*10=130
14*1=14 14*2=28 14*3=42 14*4=56 14*5=70 14*6=84 14*7=98 14*8=112 14*9=126 14*10=140
15*1=15 15*2=30 15*3=45 15*4=60 15*5=75 15*6=90 15*7=105 15*8=120 15*9=135 15*10=150
16*1=16 16*2=32 16*3=48 16*4=64 16*5=80 16*6=96 16*7=112 16*8=128 16*9=144 16*10=160

```

Process returned 0 (0x0) execution time : 4.498 s
Press any key to continue.

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      scanf("%d %d",&a,&b);
6      for(int i=a;i<=b;i++)
7      {
8          int flag=1;
9          for(int j=2;j<=i/2;j++)
10         {
11             if(i%j==0){ flag=0; }
12         }
13         if(flag==1) printf("%d is prime\n",i);
14     }
15     return 0;
16 }
17
18

```

```

"C:\Users\ASUS\OneDrive\De  X + v - □ X
9
50
11 is prime
13 is prime
17 is prime
19 is prime
23 is prime
29 is prime
31 is prime
37 is prime
41 is prime
43 is prime
47 is prime

Process returned 0 (0x0)   execution time : 12.603 s
Press any key to continue.
|

```

```

#include <stdio.h>

int main() {
    int n, i, j;

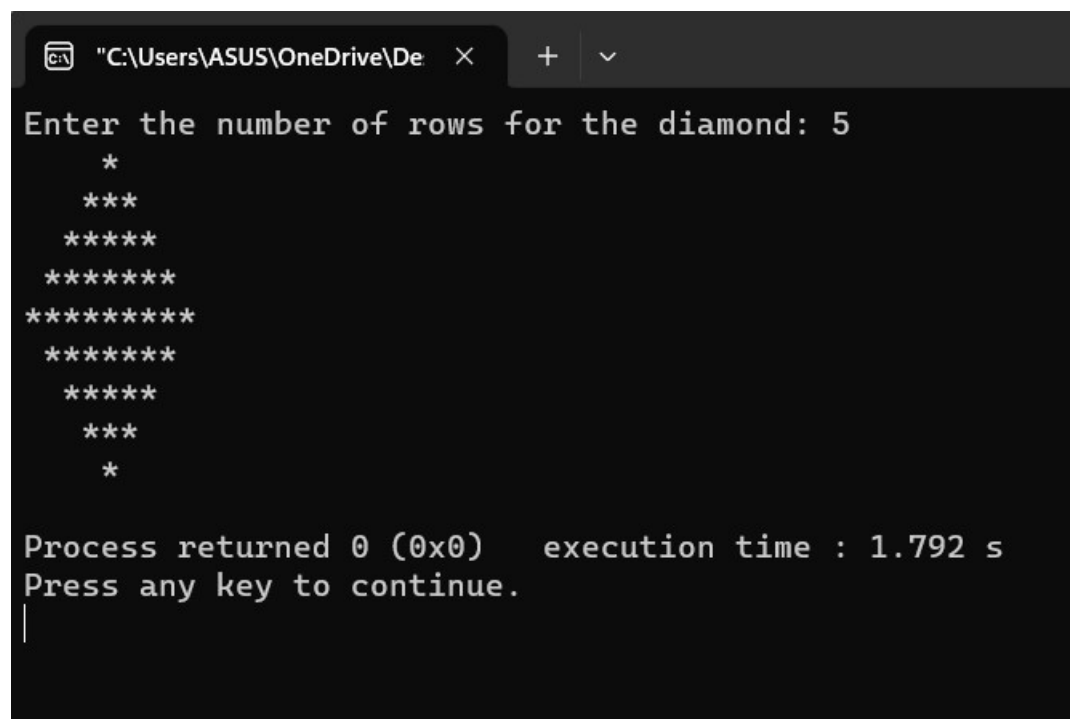
    printf("Enter the number of rows for the diamond: ");
    scanf("%d", &n);

    // Upper half of the diamond
    for (i = 1; i <= n; i++) {
        for (j = 1; j <= n - i; j++) {
            printf(" ");
        }
        for (j = 1; j <= 2 * i - 1; j++) {
            printf("*");
        }
        printf("\n");
    }

    // Lower half of the diamond
    for (i = n - 1; i >= 1; i--) {
        for (j = 1; j <= n - i; j++) {
            printf(" ");
        }
        for (j = 1; j <= 2 * i - 1; j++) {
            printf("*");
        }
        printf("\n");
    }

    return 0;
}

```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\ASUS\OneDrive\De". The prompt displays the output of the C program. It first asks for the number of rows, which is 5. Then it prints a diamond shape made of asterisks. The diamond has 5 rows: the first row has 1 star, the second has 3, the third has 5, the fourth has 3, and the fifth has 1. Below the diamond, the program outputs "Process returned 0 (0x0) execution time : 1.792 s" and "Press any key to continue." followed by a cursor.

```

C:\Users\ASUS\OneDrive\De
Enter the number of rows for the diamond: 5

  *
 ***
*****
*****
*****
 *****
  ***
   *

Process returned 0 (0x0)   execution time : 1.792 s
Press any key to continue.
|

```

```

1  #include <stdio.h>
2
3  int main() {
4      int n, i, j;
5
6      printf("Enter the number of rows for the diamond: ");
7      scanf("%d", &n);
8      // Lower half of the diamond
9      for (i = n - 1; i >= 1; i--) {
10         for (j = 1; j <= n - i; j++) {
11             printf(" ");
12         }
13         for (j = 1; j <= 2 * i - 1; j++) {
14             printf("*");
15         }
16         printf("\n");
17     }
18
19     return 0;
20 }
21
22

```

Enter the number of rows for the diamond: 5

```

*****
*****
***
*

```

Process returned 0 (0x0) execution time : 2.167 s

Press any key to continue.

logs & others

Code::Blocks Search results Cccc Build lo

File

Line Message

```

=== Build file: "no target" in "no pr
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

```

The image shows a C code editor window with a file explorer at the top displaying various files like '14.4.c', '14.1.c', '14.2.c', '14.3.c', 'diamond ass.c', '4.c', '5.c', '1.c', '2.c', '3.c', 'upper pyramid.c', 'lower pyramid.c', and 'cse 6'. The code in the editor is as follows:

```
1  #include <stdio.h>
2
3  int main() {
4      int n, i, j;
5
6      printf("Enter the number of rows for the diamond: ");
7      scanf("%d", &n);
8
9      // Upper half of the diamond
10     for (i = 1; i <= n; i++) {
11         for (j = 1; j <= n - i; j++) {
12             printf(" ");
13         }
14         for (j = 1; j <= 2 * i - 1; j++) {
15             printf("*");
16         }
17         printf("\n");
18     }
19     return 0;
20 }
21
```

Below the code editor is a 'Logs & others' panel showing build messages:

File	Line	Message
		=== Build file: "no target" in "no"
		=== Build finished: 0 error(s), 0

Overlaid on the bottom right is a terminal window titled '"C:\Users\ASUS\OneDrive\De"'. It displays the program's execution:

```
Enter the number of rows for the diamond: 5
 *
 ***
 *****
 *******
 *****
 ***
 *
```

Below the pattern, the terminal shows:

```
Process returned 0 (0x0)   execution time : 4.102 s
Press any key to continue.
```

The status bar at the bottom of the editor shows the file path: '\\OneDrive\\Desktop\\2nd semester\\lab-4\\upper pyramid.c' and the encoding: 'C/C++'.