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main.c   ➕

```c
1  #include <stdio.h>
2
3  int main()
4  {
5      int i, j, rows;
6
7      /* Input rows from user */
8      printf("Enter number of rows: ");
9      scanf("%d", &rows);
10
11     for(i=1; i<=rows; i++)
12     {
13         for(j=1; j<=i; j++)
14         {
15             /*
16              * Print star for first column(j==1),
17              * last column(j==i) or last row(i==rows).
18              */
19             if(j==1 || j==i || i==rows)
20             {
21                 printf("*");
22             }
23             else
24             {
25                 printf(" ");
26             }
27         }
28
```
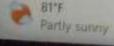
→ Input optional

5
15

⬆

➡ Output

Enter number of rows
**

* *

*   *

*****

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← C ⊕ https://techiedelight.com/compiler/

main.c ➕

```c
2
3  int main()
4 ▾ {
5      int i, j, rows, columns;
6
7      printf("Please Enter the Number of rows:\n");
8      scanf("%d", &rows);
9
10     printf("Please Enter the Number of Columns:\n");
11     scanf("%d", &columns);
12
13     for(i = 0; i < rows; i++)
14 ▾   {
15         for(j = 0; j < columns; j++)
16 ▾     {
17             if(i == 0 || i == rows-1 || j == 0 || j == columns-1)
18 ▾         {
19                 printf("*");
20             }
21             else
22 ▾         {
23                 printf(" ");
24             }
25         }
26         printf("\n");
27     }
28     return 0;
29 }
```

⊕ Input optional

```
5
15
```

⬆   ⟶ Output

Please Enter the Number of rows:
Please Enter the Number of Columns:
****
*   *
*   *
*   *
****

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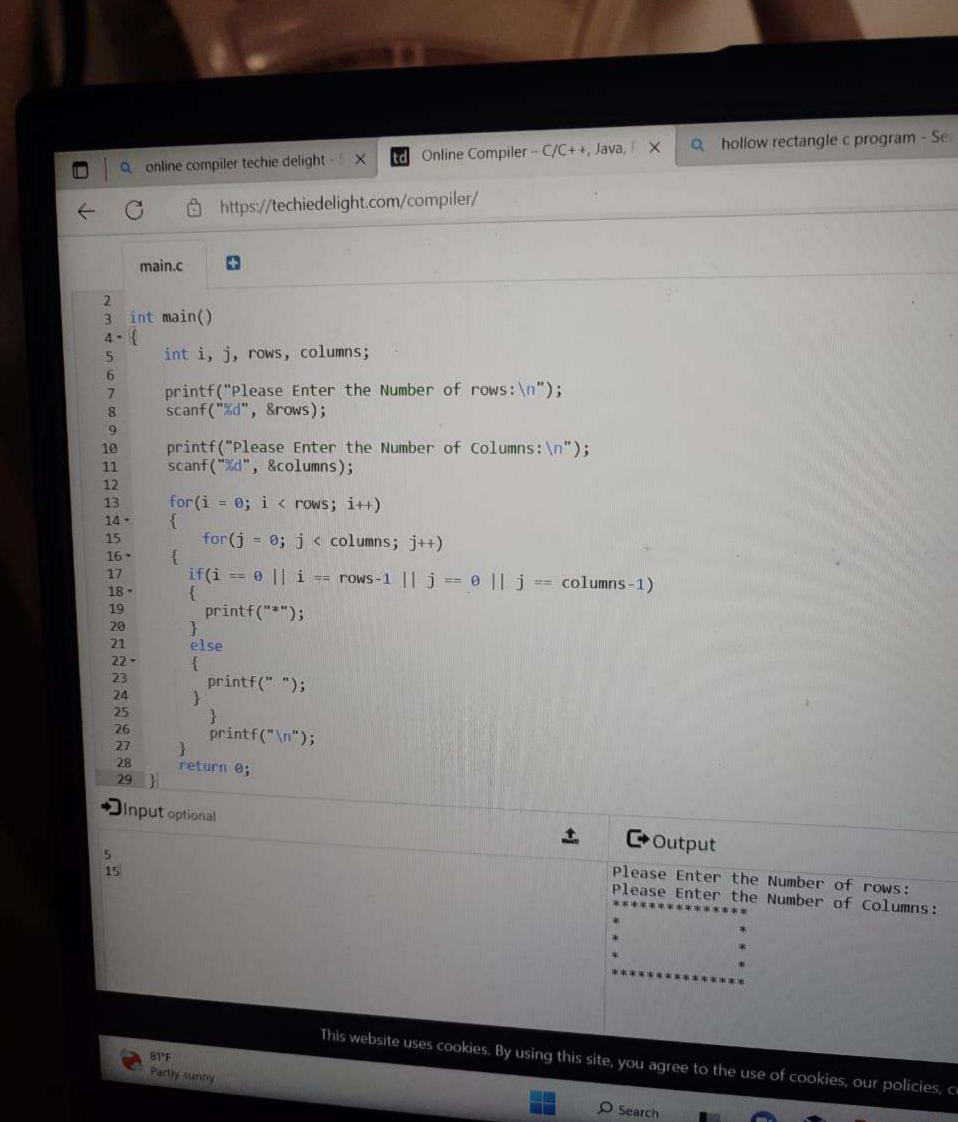
```c
3   int main()
4 ▾ {
5       int n = 5, rows = 1, columns;
6 ▾  while (rows <= n) {
7            columns = n;
8 ▾          while (columns > rows) {
9                printf(" ");
10               columns--;
11           }
12           printf("*");
13           columns = 1;
14 ▾         while (columns < (rows - 1) * 2) {
15               printf(" ");
16               columns++;
17           }
18 ▾         if (rows == 1) {
19               printf("\n");
20           }
21 ▾         else {
22               printf("*\n");
23           }
24           rows++;
25       }rows = n - 1;
26 ▾  while (rows >= 1) {
27           columns = n;
28 ▾          while (columns > rows) {
29                printf(" ");
```
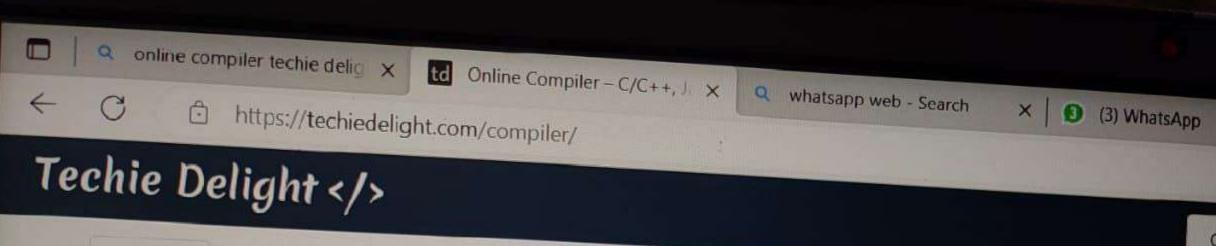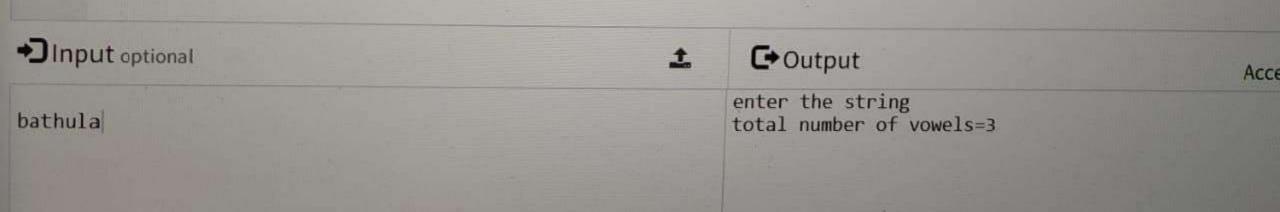
⬆ Input optional   ⬆   ⮕ Output

```
        *
       * *
      *   *
     *     *
    *       *
   *         *
    *       *
     *     *
      *   *
       * *
        *
```

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C (GCC

main.c   +

```c
#include<stdio.h>

int main()
{
    char str[100];
    int i,v=0;
    printf("enter the string\n");
    scanf("%s",&str);
    for(i=0;str[i];i++)
    {
        if( str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u')
        {
            v++;
        }
    }
    printf("total number of vowels=%d\n",v);
    return 0;
}
```

→Input optional

bathula

→Output   Acce

```
enter the string
total number of vowels=3
```

```
main.c        [+]

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

→ Input optional   ⤒   ➡ Output

5

```
A
A B
A B C
A B C D
A B C D E
A B C D E F
```

```c
#include<stdio.h>
int main()
{

    int i, j, rows, k = 0;
    printf (" Enter a number to define the rows: \n");
    scanf ("%d", &rows);
    for ( i =1; i <= rows; i++)
    {
    for ( j = 1; j <= rows - i; j++)
    {
    printf (" ");
    }
    // use for loop where k is less than equal to (2 * i -1)
    for ( k = 1; k <= ( 2 * i - 1); k++)
    {
    printf ("* ");
    }
    printf ("\n");
    }

    return 0;
}
```