

Example 1: Program to print half pyramid using \*

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

```
int main()
```

```
*      {  int i, j, rows;
```

```
* *      printf("Enter the number of rows: ");
```

```
* * *      scanf("%d",&rows);
```

```
* * *      for(i=1; i<=rows; ++i)
```

```
* * * *      {
```

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

```
{          printf("* ");
```

```
}
```

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

```
}
```

```
return 0;
```

```
}
```

1	#include <stdio.h>
1 2	int main()
1 2 3	{ int i, j, rows;
1 2 3 4	printf("Enter the number of rows: ");
1 2 3 4 5	scanf("%d",&rows);
	for(i=1; i<=rows; ++i)
	{
	for(j=1; j<=i; ++j)
	{ printf("%d ",j);
	}
	printf("\n");
	}
	return 0; }

A  
B B  
C C C  
D D D D  
E E E E E

```
#include <stdio.h>

int main()
{   int i, j;
    char input, alphabet = 'A';
    printf("Enter the uppercase character you want to
    print in last row: ");
    scanf("%c",&input);
    for(i=1; i <= (input-'A'+1); ++i)
    {   for(j=1;j<=i;++j)
        { printf("%c", alphabet);
          }
        ++alphabet;
        printf("\n");
    }
    return 0; }
```

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

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

```
int main()
```

```
{
```

```
    int i, j, rows;
```

```
    printf("Enter the number of rows: ");
```

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

```
    for(i=rows; i>=1; --i)
```

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

```
    { printf("* ");
```

```
    }
```

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

```
}
```

```
return 0;
```

```
}
```

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

```
#include <stdio.h>

int main()
{ int row, c, n;

    printf("Enter the number of rows in pyramid of stars
you wish to see ");
    scanf("%d",&n);

    for ( row = 1 ; row <= n ; row++ )
    {
        for ( c = 1 ; c <= n-row ; c++ )
            printf(" ");
        for ( c = 1 ; c <= 2*row - 1 ; c++ )
            printf("*");

        printf("\n");
    } return 0; }
```

1	main()
232	{ int n, c, d, num = 1, space;
34543	scanf("%d",&n);
4567654	space = n - 1;
567898765	for ( d = 1 ; d <= n ; d++ )
	{ num = d;
	for ( c = 1 ; c <= space ; c++ )
	printf(" ");
	space--;
	for ( c = 1 ; c <= d ; c++ )
	{ printf("%d", num);
	num++; }
	num--;
	num--;
	for ( c = 1 ; c < d ; c++ )
	{ printf("%d", num);
	num--; }
	printf("\n"); }
	return 0;
	}

# Home Assignments

2. Write a Program to display the following pattern

A

A        B

A        B        C

A        B        C        D

.....

.....

A        B .....

X

Y

Z