Print Patterns in C : part 1

scanftree.com/programs/c/programs-to-print-pyramid-patterns-in-c-part-1

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *_
```

Program : 1

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j;
 5.  clrscr();
 6.  for (i=0; i<5; i++) {
 7.   for (j=0; j<5; j++) {
 8.    printf(" * ");
 9.   }
10.   printf("\n");
11.  }
12.  getch();
13. }
```

```
*
* *
* * *
* * * *
* * * * *_
```

Program : 2

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j;
 5.  clrscr();
 6.  for (i=0; i<5; i++) {
 7.   for (j=0; j<=i; j++) {
 8.    printf(" * ");
 9.   }
10.   printf("\n");
11.  }
12.  getch();
13. }
```

```
        *
      * *
    * * *
  * * * *
* * * * *_
```

Program : 3

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j,k;
 5.  clrscr();
 6.  for (i=1; i<=5; i++) {
 7.   for (j=5; j>=i; j--) {
 8.    printf(" ");
 9.   }
10.   for (k=1; k<=i; k++) {
11.    printf("*");
12.   }
13.   printf("\n");
14.  }
15.  getch();
16. }
```

```
* * * * *
  * * * *
    * * *
      * *
        *_
```

Program : 4

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j,k,samp=1;
 5.  clrscr();
 6.  for (i=5; i>=1; i--) {
 7.   for (k=samp; k>=0; k--) {
 8.    printf(" ");
 9.    // only 1 space
10.   }
11.   for (j=i; j>=1; j--) {
12.    printf("*");
13.   }
14.   samp = samp + 1;
15.   printf("\n");
16.  }
17.  getch();
18. }
```

```
* * * * *
* * * *
* * *
* *
*_
```

Program : 5

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j;
 5.  clrscr();
 6.  for (i=5; i>=1; i--) {
 7.   for (j=1; j<=i; j++) {
 8.    printf(" * ");
 9.   }
10.   printf("\n");
11.  }
12.  getch();
13. }
```

```
    *
   * *
  * * *
 * * * *
* * * * *_
```

Program : 6

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j,k,t=0;
 5.  clrscr();
 6.  for (i=1; i<=5; i++) {
 7.   for (k=t; k<5; k++) {
 8.    printf(" ");
 9.   }
10.   for (j=0; j< i; j++) {
11.    printf(" * ");
12.    t = t + 1;
13.   }
14.   printf("\n");
15.  }
16.  getch();
17. }
```

```
        *
      * *
    * * *
  * * * *
* * * * *
  * * * *
    * * *
      * *
        *_
```

Program : 7

```
 1. #include <stdio.h>
 2. #include <conio.h>
 3. void main() {
 4.  int i,j,k,samp=1;
 5.  clrscr();
 6.  for (i=1; i<=5; i++) {
 7.   for (k=samp; k<=5; k++) {
 8.    printf(" ");
 9.   }
10.   for (j=0; j< i; j++) {
11.    printf("*");
12.   }
13.   samp = samp + 1;
14.   printf("\n");
15.  }
16.  samp = 1;
17.  for (i=4; i>=1; i--) {
18.   for (k=samp; k>=0; k--) {
19.    printf(" ");
20.   }
21.   for (j=i; j>=1; j--) {
22.    printf("*");
23.   }
24.   samp = samp + 1;
25.   printf("\n");
26.  }
27.  getch();
28. }
```

Output : 8

```
Enter number of rows: 5

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15_
```

Program : 8

```
#include <stdio.h>
#include <conio.h>
void main() {
 int rw, c, no=1 ,len;
 clrscr();
 printf("Enter number of rows: ");
 scanf("%d," &len);
 for (rw=1; rw<=len; rw++) {
  printf("\n");
  for (c=1; c<=rw; c++) {
   printf(" %2d ", no);
   no++;
  }
 }
 getch();
}
```

Output : 9

```
Enter number of rows: 5

          0
        1 0 1
      2 1 0 1 2
    3 2 1 0 1 2 3
  4 3 2 1 0 1 2 3 4
5 4 3 2 1 0 1 2 3 4 5_
```

Program : 9

```
#include <stdio.h>
#include <conio.h>
void main() {
 int no,i,y,x=35;
 clrscr();
 printf("Enter number of rows: ");
 scanf("%d," &no);
 for (y=0;y<=no;y++) {
  goto(x,y+1);
  for (i=0-y; i<=y; i++) {
   printf(" %3d ", abs(i));
   x=x-3;
  }
 }
 getch();
}
```

Output : 10

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

Program : 10

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