Pattern printing in C

Program 1:

/* Write a c program to display the pattern of Matrix of 5x5*/

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=0;j<5;j++)
{
//printf("%d",j);
printf("*");
}
printf("\n");
}
getch();
}
```

OUTPUT:

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

/* Write a c program to display the pattern of Matrix of 5x5*/

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=0;j<5;j++)
{
printf("%d",j);
//printf("*");
}
printf("\n");
}
getch();
}
```

OUTPUT:
01234
01234
01234
01234
01234

Program 2:
/* Program to Print Right Half Pyramid Pattern */

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=0;j<=i;j++)
{
//printf("%d",j);
printf("*");
}
printf("\n");
}
```

```
getch();
}
```

OUTPUT:
*
**
***
****
*****

/* Program to Print Right Half Pyramid Pattern */

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=0;j<=i;j++)
{
printf("%d",j);
//printf("*");
}
printf("\n");
}
```

```
getch();
```

OUTPUT:

0
01
012
0123
01234

Program 3:

/* Program to Print Inverted Right Half Pyramid Pattern*/

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=5;j>i;j--)
{
//printf("%d",j);
printf("*");
}
printf("\n");
}
getch();
}
```

OUTPUT:

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

/* Program to Print Inverted Right Half Pyramid Pattern*/

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j;              // i is used for row and j is used for column
clrscr();
for(i=0;i<5;i++)
{
for(j=5;j>i;j--)
{
//printf("%d",j);
printf("*");
```

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

OUTPUT:

54321
5432
543
54
5

Program 4:

/*Program to Print Full Pyramid Pattern */

```
#include<stdio.h>
#include<conio.h>
void main()
{
 int i,j,row=10,space;
 clrscr();
 for(i=1;i<row;i++)
 {
        for(space=1;space<row-i;space++)
        {
        printf(" ");
        }
        /*
        for(j=1;j<=i;j++)
        {
        printf("*.");
        }
        */
        /*
        for(j=1;j<=2*i-1;j++)
        {
        printf("*");
        }
        */
  printf("\n");
  }
getch();
}
```

OUTPUT:

Program 5:

/*Program to Print Full Pyramid Pattern */

```
#include<stdio.h>
#include<conio.h>
void main()
{
 int i,j,row=10,space;
 clrscr();
 for(i=1;i<row;i++)
 {
          for(space=1;space<row-i;space++)
          {
          printf(" ");
          }
          /*
          for(j=1;j<=i;j++)
          {
          printf("*.");
          }
          */

          for(j=1;j<=2*i-1;j++)
          {
          printf("*");
          }

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

OUTPUT:

Program 6:

/* Program to Print Inverted Full Pyramid Pattern */

```
#include<stdio.h>
#include<conio.h>
void main()
{
   // Number of rows
   int N = 5;

   // Outer loop runs N times, once for each row
   for (int i = 1; i <= N; i++)
   {
       // Inner loop prints 'i - 1' spaces
      for (int j = 1; j <= i - 1; j++)
      {
         printf(" ");

      }

      // Inner loop prints '2 * (N - i) + 1' stars
      for (int j = 1; j <= 2 * (N - i) + 1; j++)
      {
        printf("*");
      }
      // Move to the next line
        printf("\n");
      }
      getch();
}
```

OUTPUT: