



Programs Based on Triangular Patterns

PROGRAMS TO PRACTICE

1. *
 * *
 * * *
 * * * *
 * * * * *

2. #
 # @
 # @ #
 # @ # @
 # @ # @ #

3. #
 # #
 # #
 # #
 # # # # #

4. 1
 1 2
 1 2 3
 1 2 3 4
 1 2 3 4 5

5. 1
 3 3
 5 5 5
 7 7 7 7
 9 9 9 9 9

6. 1
 2 2 2
 3 3 3 3 3
 4 4 4 4 4 4 4
 5 5 5 5 5 5 5 5 5

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

Program-1

```
*      class pattern1
* *    {
* * *   public static void main(String Args[])
* * * * {
* * * * * int i,j;
* * * * * for(i=1;i<=5;i++)
* * * * * {
* * * * *     for(j=1;j<=i;j++)
* * * * *     {
* * * * *         System.out.print("*");
* * * * *     }
* * * * *     System.out.println( );
* * * * * }
* * * * }
```

Program-2

```
#           class pattern2
# @        {
# @ #      public static void main(String Args[])
# @ # @    {
# @ # @    int i,j;
# @ # @    for(i=1;i<=5;i++)
# @ # @    {
# @ # @    for(j=1;j<=i;j++)
# @ # @    {
# @ # @    if(j%2==0)
# @ # @    System.out.print("@");
# @ # @    else
# @ # @    System.out.print("#");
# @ # @    }
# @ # @    System.out.println( );
# @ # @    }
# @ # @    }
# @ # @    }
```

Program-3

```
#  
# #  
#  #  
#   #  
# # # # #
```

```
class pattern3  
{  
    public static void main(String Args[])  
    {  
        int i,j;  
        for(i=1;i<=5;i++)  
        {  
            for(j=1;j<=i;j++)  
            {  
                if(j==1||i==5||j==i)  
                    System.out.print("#");  
                else  
                    System.out.print(" ");  
            }  
            System.out.println( );  
        }  
    }  
}
```

Program-4

```
1      class pattern4
2      {
3          public static void main(String Args[])
4          {
5              int i,j;
6              for(i=1;i<=5;i++)
7              {
8                  for(j=1;j<=i;j++)
9                  {
10                     System.out.print(j+" ");
11                 }
12                 System.out.println( );
13             }
14         }
15     }
```

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

Program-5

```
1
3 3
5 5 5
7 7 7 7
9 9 9 9 9
```

```
class pattern5
{
    public static void main(String Args[])
    {
        int i, j,a=1;
        for(i=1;i<=5;i++)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(a+" ");
            }
            a+=2;
            System.out.println( );
        }
    }
}
```

Program-6

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

```
class pattern6
{
    public static void main(String Args[])
    {
        int i,j,a=1;
        for(i=1;i<=5;i++)
        {
            for(j=1;j<=a;j++)
            {
                System.out.print(i+" ");
            }
            a+=2;
            System.out.println( );
        }
    }
}
```


Program-7

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

```
class pattern7
{
    public static void main(String Args[])
    {
        int i,j,a=1;
        for(i=1;i<=5;i++)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(a+" ");
                a++;
            }
            System.out.println( );
        }
    }
}
```