# <u>Lecture 5 : Patterns - 1</u>

Code : Square Pattern
Send Feedback
Print the following pattern for the given N number of rows.
Pattern for N = 4
4444
4444
4444
4444
Input format :
Integer N (Total no. of rows)
Output format :
Pattern in N lines
Constraints
0 <= N <= 50
Sample Input 1:
7
Sample Output 1:
7777777
777777
7777777
7777777
7777777
7777777
7777777
Sample Input 1:
6
Sample Output 1:
666666
666666
666666

```
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
              int n = sc.nextInt();
              for(int i=0; i<n; i++){
                      for(int j=0; j<n; j++){
                             System.out.print(n);
                      System.out.println();
              }
       }
}
Code: Triangular Star Pattern
Send Feedback
Print the following pattern for the given N number of rows.
Pattern for N = 4
Note: There are no spaces between the stars (*).
Input format:
Integer N (Total no. of rows)
Output format:
```

Pattern in N lines

#### **Constraints**

0 <= N <= 50

## Sample Input 1:

# **Sample Output 1:**

```
Sample Input 2:
```

6

```
Sample Output 2:
```

# **Code: Triangle Number Pattern**

Send Feedback

Print the following pattern for the given N number of rows.

#### Pattern for N = 4

1

22

333

4444

## Input format:

Integer N (Total no. of rows)

## **Output format:**

Pattern in N lines

#### **Constraints**

0 <= N <= 50

## Sample Input 1:

5

## **Sample Output 1:**

1

22

333

4444

## Sample Input 2:

6

```
Sample Output 2:
```

```
22
333
4444
55555
666666
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               for(int i=0; i<n; i++){
                       for(int j=0; j<i+1; j++){
                                System.out.print(i+1);
                       }
                       System.out.println();
               }
       }
}
```

# **Code: Reverse Number Pattern**

Send Feedback

Print the following pattern for the given N number of rows.

#### Pattern for N = 4

1 21

321

4321

## Input format:

Integer N (Total no. of rows)

## Output format:

Pattern in N lines

#### **Constraints**

0 <= N <= 50

# Sample Input 1:

5

```
Sample Output 1:
1
21
321
4321
54321
Sample Input 2:
Sample Output 2:
21
321
4321
54321
654321
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               for(int i=0; i<n; i++){
                      for(int j=i+1; j>0; j--){
                              System.out.print(j);
                      }
                      System.out.println();
               }
       }
}
```

# **Code: Alpha Pattern**

Send Feedback

Print the following pattern for the given N number of rows.

## Pattern for N = 3

Α

BB

CCC

## Input format:

Integer N (Total no. of rows)

## **Output format:**

Pattern in N lines

## **Constraints**

0 <= N <= 26

```
Sample Input 1:
Sample Output 1:
BB
CCC
DDDD
EEEEE
FFFFF
GGGGGG
Sample Input 2:
Sample Output 2:
Α
BB
CCC
DDDD
EEEEE
FFFFFF
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
             Scanner sc = new Scanner(System.in);
              int n = sc.nextInt();
              char x = 65;
              for(int i=0; i< n; i++){
                     for(int j=0; j<i+1; j++){
                        System.out.print((char)(x+i));
                     }
                     System.out.println();
              }
      }
}
```

# **Code: Character Pattern**

Send Feedback

Print the following pattern for the given N number of rows.

## Pattern for N = 4

Α

BC

CDE

**DEFG** 

Input format:

```
Integer N (Total no. of rows)
Output format:
Pattern in N lines
Constraints
0 <= N <= 13
Sample Input 1:
Sample Output 1:
Α
BC
CDE
DEFG
EFGHI
Sample Input 2:
Sample Output 2:
BC
CDE
DEFG
EFGHI
FGHIJK
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
              Scanner sc = new Scanner(System.in);
              int n = sc.nextInt();
              char x = 'A';
              for(int i=0; i<n; i++){
                      for(int j=0; j<i+1; j++){
                             System.out.print((char)(x+i+j));
                      System.out.println();
              }
       }
}
```

# **Code: Interesting Alphabets**

Send Feedback

Print the following pattern for the given number of rows.

## Pattern for N = 5

Ε

DE

CDE

```
BCDE
ABCDE
Input format:
N (Total no. of rows)
Output format:
Pattern in N lines
Constraints
0 <= N <= 26
Sample Input 1:
Sample Output 1:
Н
GH
FGH
EFGH
DEFGH
CDEFGH
BCDEFGH
ABCDEFGH
Sample Input 2:
Sample Output 2:
G
FG
EFG
DEFG
CDEFG
BCDEFG
ABCDEFG
import java.util.Scanner;
public class Solution {
       public static void main(String[] args) {
              Scanner sc = new Scanner(System.in);
              int n = sc.nextInt();
             char x = 'A';
              for(int i=n-1; i>=0; i--){
                     for(int j=0; j<n-i; j++){
                       System.out.print((char)(x+i+j));
                     System.out.println();
              }
      }
}
```

```
Code: Interesting Alphabets
Send Feedback
Print the following pattern for the given number of rows.
Pattern for N = 5
Ε
DE
CDE
BCDE
ABCDE
Input format:
N (Total no. of rows)
Output format :
Pattern in N lines
Constraints
0 <= N <= 26
Sample Input 1:
Sample Output 1:
GH
FGH
EFGH
DEFGH
CDEFGH
BCDEFGH
ABCDEFGH
Sample Input 2:
Sample Output 2:
FG
EFG
DEFG
CDEFG
BCDEFG
ABCDEFG
import java.util.Scanner;
```

public class Solution {

public static void main(String[] args) {

for(int i=n-1; i>=0; i--){

int n = sc.nextInt();

char x = 'A';

Scanner sc = new Scanner(System.in);

for(int j=0; j<n-i; j++){

```
System.out.print((char)(x+i+j));
}
System.out.println();
}
}
}
```