PROBLEM 1:

**Count Digits in an Integer 1**

Write a program that reads an positive integer and count the number of digits the number

**Input Format**

Input consists of one integer.

**Constraints**

1<=num>=10000000

**Output Format**

Execute the count of the digit integer.

**Sample Input 0**

67578

**Sample Output 0**

The count of the given integer is: 5

**Sample Input 1**

9876543445

**Sample Output 1**

Enter a Valid Input

CODING:

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner (System.in);

long a = s.nextLong();

int i,count=0;

long temp=a;

if(a>=1&&a<=10000000){

while(temp>0){

count++;

temp/=10;

}

System.out.println("The count of the given integer is: "+count);

}

else{

System.out.println("Enter a Valid Input");

}

}

}

PROBLEM 2:

**Print a pattern 4**

Print the below pattern

**Input Format**

Get the integer value

**Constraints**

n value should be within 0 to 9

**Output Format**

print the patten

**Sample Input 0**

4

**Sample Output 0**

A

B C

D E F

G H I J

**Sample Input 1**

3

**Sample Output 1**

A

B C

D E F

**Sample Input 2**

12

**Sample Output 2**

Invalid Input

CODING :

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

if(n >= 0 && n <= 9) {

char ch = 'A';

for(int i = 1; i <= n; i++) {

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

System.out.print(ch + " ");

ch++;

}

System.out.println();

}

} else {

System.out.println("Invalid Input");

}

}

}

PROBLEM 3:

**Alphabet Diamond 1**

Write the program to print the pattern

**Input Format**

Input consists of integer.

**Constraints**

No constraints

**Output Format**

Print the pattern

**Sample Input 0**

5

**Sample Output 0**

A

A B

A B C

A B C D

A B C D E

A B C D

A B C

A B

A

CODING :

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

for(int i=1; i<=n; i++) {

for(int s=1; s<=n-i; s++) System.out.print(" ");

for(char ch='A'; ch<'A'+i; ch++) System.out.print(ch + " ");

System.out.println();

}

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

for(int s=1; s<=n-i; s++) System.out.print(" ");

for(char ch='A'; ch<'A'+i; ch++) System.out.print(ch + " ");

System.out.println();

}

}

}

PROBLEM 4:

**Hollow Square Pattern 4**

write the program to print the pattern

**Input Format**

Input consists of integer.

**Constraints**

No constraints

**Output Format**

Print the following pattern

**Sample Input 0**

5

**Sample Output 0**

\*\*\*\*\*

\* \*

\* \*

\* \*

\*\*\*\*\*

**Sample Input 1**

3

**Sample Output 1**

\*\*\*

\* \*

\*\*\*

CODING :

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

for(int i = 1; i <= n; i++) {

for(int j = 1; j <= n; j++) {

if(i == 1 || i == n || j == 1 || j == n) {

System.out.print("\*");

} else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

PROBLEM 5:

**Alphabet Right Triangle**

Write the program to print the pattern

**Input Format**

Input consists of integer

**Constraints**

No constraints

**Output Format**

Print the pattern

**Sample Input 0**

5

**Sample Output 0**

A

B C

C D E

D E F G

E F G H I

CODING :

import java.io.\*;

import java.util.\*;

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++) {

char ch = (char)('A' + i);

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

System.out.print((char)(ch + j) + " ");

}

System.out.println();

}

}

}