**Right Angled Triangles-1**

**Question 1:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 6 then Print

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

1 2 3 4 5 6

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    6

Output 1:

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

1 2 3 4 5 6

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j<=i)

{

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

}

}

System.out.println();

}

}

}

}

**Question 2:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

@ @ @ @ @

@ @ @ @

@ @ @

@ @

@

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- If the Given input is Positive then Print the following pattern.

                      If the Given Input is Zero then Print **Invalid Input**.

                      If the Given input is Negative then convert into Positive and then Print Following Pattern.

**Example:**

Input 1  :    5

Output 1:

@ @ @ @ @

@ @ @ @

@ @ @

@ @

@

Input 2  :    -6

Output 2:

@ @ @ @ @ @

@ @ @ @ @

@ @ @ @

@ @ @

@ @

@

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value, If the Given Input is Negative then convert that value into Positive and then Print Following Pattern.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

n=Math.abs(n);

if(n==0)

{

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

}

else{

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

{

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

{

if(j<=n-i+1)

{

System.out.print("@ ");

}

else{

System.out.print("");

}

}System.out.println();

}

}

}

}

**Question 3:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

10 10 10 10 10

8 8 8 8

6 6 6

4 4

2

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

10 10 10 10 10

8 8 8 8

6 6 6

4 4

2

Input 2  :    -6

Output 2:

Invalid Input

Input 3  :    6

Output 3:

12 12 12 12 12 12

10 10 10 10 10

8 8 8 8

6 6 6

4 4

2

**Explanation:**

Take One Integer Value From the User and Print the Following Pattern.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

int value=2\*n;

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

{

for(int j=1;j<=n-i+1;j++)

{

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

}

value-=2;

System.out.println();

}

}

}

}

**Question 4:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 7 then Print

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

6 6 6 6 6 6

7 7 7 7 7 7 7

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    7

Output 1:

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

6 6 6 6 6 6

7 7 7 7 7 7 7

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j<=i)

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

else

System.out.print("");

}

System.out.println();

}

}

}

}

**Question 5:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

    \*

   \*\*

  \*\*\*

 \*\*\*\*

\*\*\*\*\*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

    \*

   \*\*

  \*\*\*

 \*\*\*\*

\*\*\*\*\*

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j<=n-i)

{

System.out.print(" ");

}

else{

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

}

}

System.out.println();

}

}

}

}

**Question 6:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j<=i)

{

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

}

}

System.out.println();

}

}

}

}

**Question 7:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

\*\*\*\*\*

 \*\*\*\*

  \*\*\*

   \*\*

    \*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

\*\*\*\*\*

 \*\*\*\*

  \*\*\*

   \*\*

    \*

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

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

{

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

{

if(j<i)

{

System.out.print(" ");

}

else{

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

}

}System.out.println();

}

}

}

}

**Question 8:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 4 then Print

A

B C

D E F

G H I J

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- If the Given Input is Zero then Print **Invalid Input**.

                      If the Given Input is Negative then convert into Positive and Then Print Pattern.

                      And Given Input must be in the range of 1 to 6 either Positive or Negative or else Print **Range Exceeded**.

**Example:**

Input 1  :    4

Output 1:

A

B C

D E F

G H I J

Input 2  :    -6

Output 2:

A

B C

D E F

G H I J

K L M N O

P Q R S T U

**Explanation:**

Just Print the All Alphabets in the shape of Right angle Traingle as output if all the Constraints are Satisfied.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

n=Math.abs(n);

if(n==0)

{

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

}

else if(n>=1 && n<=6)

{

char ch='A';

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

{

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

{

if(j<=i)

{

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

ch++;

}

else{

System.out.print("");

}

}

System.out.println();

}

}

else

{

System.out.print("Range Exceeded");

}

}

}

**Question 9:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print**Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Try to Print the Following Pattern by taking one Integer Value as input.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else{

int num=1;

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

{

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

{

if(j<=i)

{

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

num++;

}

else{

System.out.print("");

}

}

System.out.println();

}

}

}

}

**Question 10:**

Report

**Marks: +10-0**

**Description:**

Write a Program to Print the Following Pattern?

If Input is 5 then Print

\*\*\*\*\*

\*\*\*\*

\*\*\*

\*\*

\*

**Constraints:**

Input          :- First Line of Input Consists of One Integer Value ( Rows ).

Output        :- Print the Given Pattern.

Constraints  :- Given Input Must be Greater than Zero or else Print **Invalid Input**.

**Example:**

Input 1  :    5

Output 1:

\*\*\*\*\*

\*\*\*\*

\*\*\*

\*\*

\*

Input 2  :    -6

Output 2:

Invalid Input

**Explanation:**

Print the Following Right angle Triangle Pattern by taking Given Integer Value.

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String []args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n<=0)

{

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

}

else {

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

{

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

{

if(j<=n-i+1)

{

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

}

else{

System.out.print("");

}

}

System.out.println();

}

}

}

}