

Program 1

Java program to print an Integer (Entered by the user)

Algorithm

Step 1 : Start

Step 2 : Create a reader instance to take input

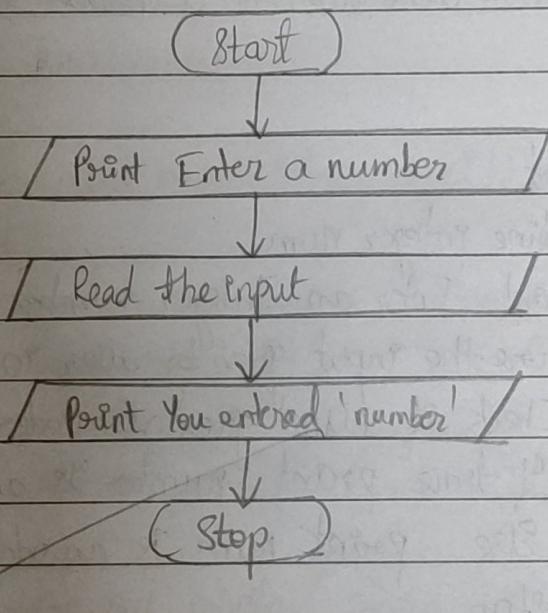
Step 3 : Print Enter a number

Step 4 : Read the number entered by user

Step 5 : Print You entered (the number entered by user)

Step 6 : Stop

Flowchart



```
import java.util.Scanner;  
public class HelloWorld {  
    public static void main (String[] args) {  
        Scanner reader = new Scanner (System.in);  
        System.out.print ("Enter a number: ");  
        int number = reader.nextInt();  
        System.out.println ("You entered: " + number);  
    }  
}
```

O/P: Enter a number: 4
You entered: 4

2) Write a program to check whether a number is Even or Odd

Algorithm

Step 1: Start

Step 2: Define integer num

Step 3: Print Enter an Integer number

Step 4: Store the input given by user in num

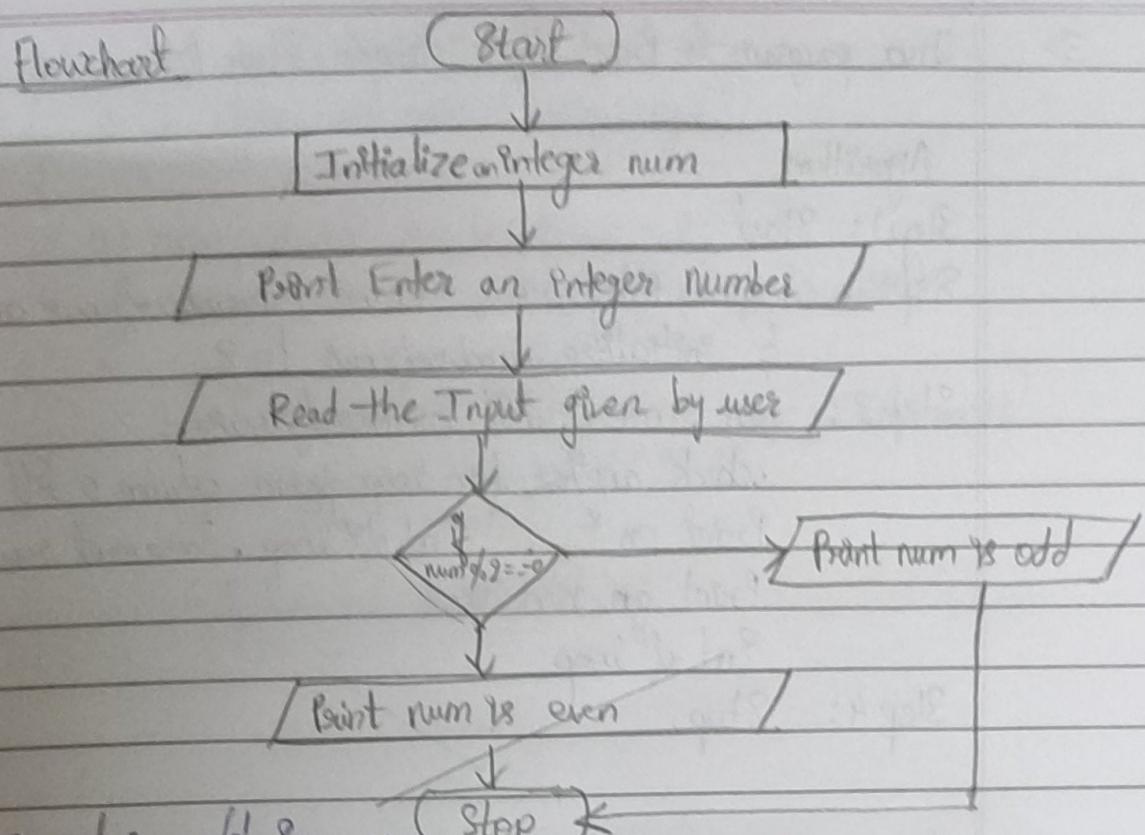
Step 5: Check if num gives remainder 0 when divided by 2

Step 6: If true print number is an even number

Step 7: Else print num is an odd number

Step 8: Stop

Flowchart



~~import java.util.Scanner;~~ Stop

```

public static void main (String args[])
{
    int num;
    Scanner input = new Scanner (System.in);
    num = input.nextInt();
    if (num % 2 == 0)
        System.out.println (num + " is an even number.");
    else
        System.out.println (num + " is an odd number.");
}
  
```

dp: Enter an Integer : 8
8 is an even no

3>

Java program to Print Right Triangle Star Pattern

Algorithm

Step1: Start

Step2: Define int row, column , numberofrows as integer
& initialize numberofrows to 8.

Step3: for row 0 till numberofrows

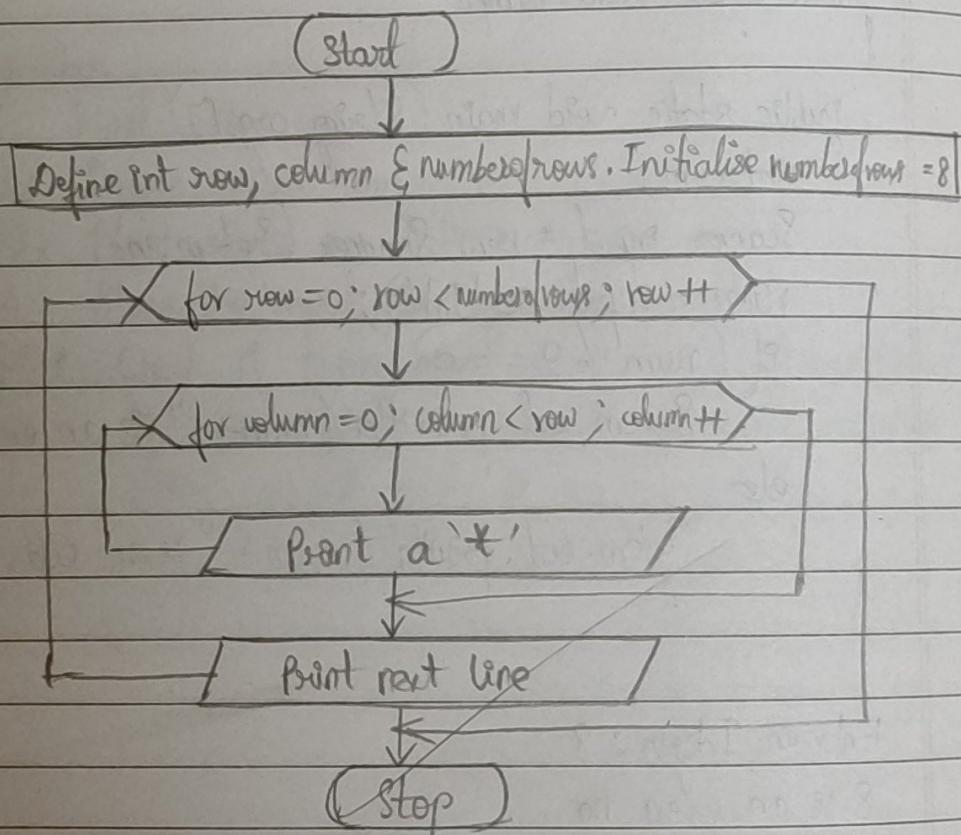
 check another for loop from column 0 till row

 Point an * . End of loop . Increment row by 1

 Point at next line

 End of loop

Step4: Stop.



```

public class JavaExample
{
    public static void main (String args[])
    {
        int row, column, numberofrows = 8;
        for (row = 0; row < numberofrows; row++)
        {
            for (column = 0; column <= row; column++)
            {
                System.out.print ("* ");
            }
            System.out.println ();
        }
    }
}

```

D/P:

```

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

4) Java program to Find Quotient & Remainder

Algorithm

Step1: Start

Step2: Initialize num1 to 15, num2 to 2. Define them as integers

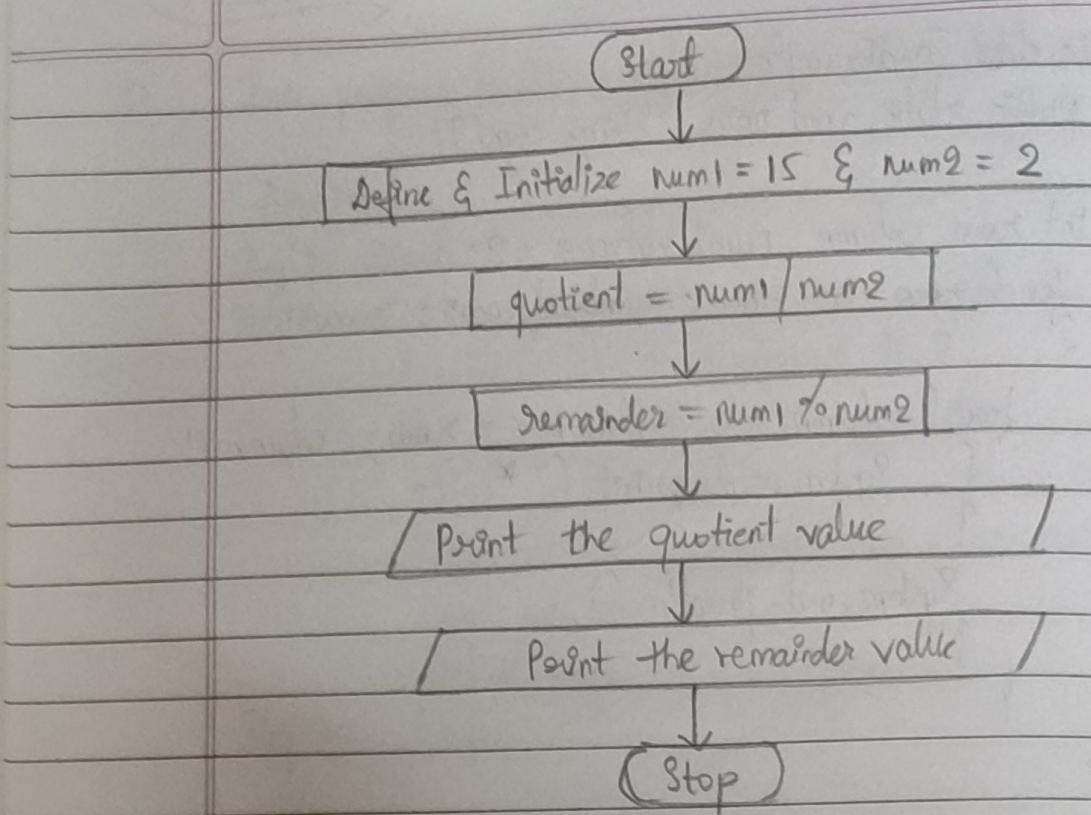
Step3: Operate quotient = num1 / num2;

Step4: Operate remainder = num1 % num2

Step5: Print Quotient value

Step6: Print remainder value

Step7: Stop



```

public class QANDR {
    public static void main (String[] args) {
        int num1 = 15, num2 = 2;
        int quotient = num1 / num2;
        int remainder = num1 % num2;
        System.out.println ("Quotient is : " + quotient);
        System.out.println ("Remainder is : " + remainder);
    }
}
  
```

O/P: Quotient is : 7
Remainder is : 1

5) Java Program to Multiply Two numbers

```

public class Demo {
    public static void main (String[] args) {
        Scanner scan = new Scanner (System.in);
        System.out.println ("Enter first number : ");
        int num1 = scan.nextInt();
        System.out.println ("Enter second number : ");
        int num2 = scan.nextInt();
        int num2 = scan.nextInt();
        scan.close ();
        int product = num1 * num2;
        System.out.println ("Output : " + product);
    }
}

```

O/P:

```

Enter first no: 6
Enter second no: 9
Output: 54

```

Algorithm

Step 1: Start

Step 2: Print Enter first number

Step 3: Read input for int num1 from user

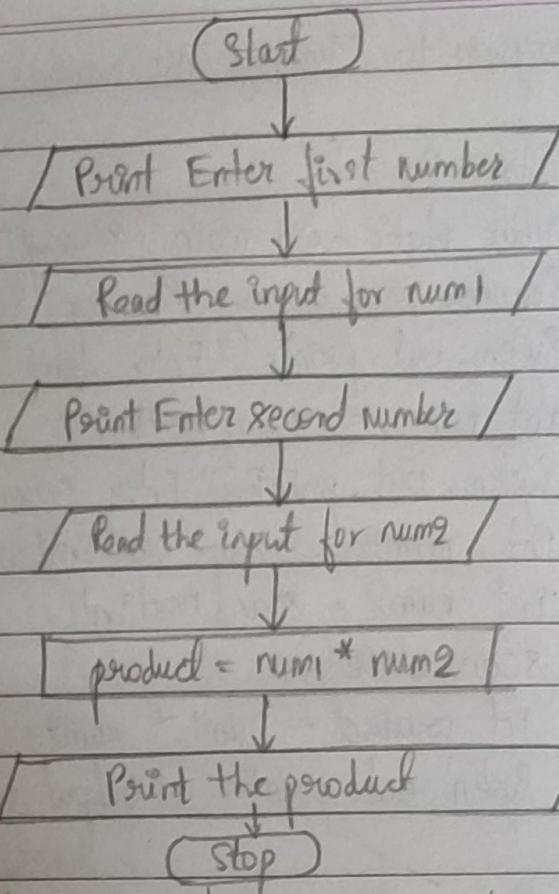
Step 4: Print Enter second number

Step 5: Read input for int num2

Step 6: Calculate product = num1 * num2

Step 7: Print the product value

Step 8: Stop



6) Swap 2 numbers using temporary variable

public class Swapnumbers {

 public static void main (String[] args) {

 float first = 1.2f, second = 2.45f;

 System.out.println ("-- Before swap --");

 System.out.println ("First number = " + first);

 System.out.println ("Second number = " + second);

 float temporary = first;

 first = second;

 second = temporary;

 System.out.println ("-- After swap --");

 System.out.println ("First number = " + first);

 System.out.println ("Second number = " + second);

Algorithm

Step1: Start

Step2: Define first & second as float datatype & initialize to 1.2af and 2.45f respectively.

Step3: Print statement Before Swap

Step4: Print first number

Step5: Print second number

Step6: Create a variable temporary of float datatype

Step7: Store variable first in temp

Step8: Store second in first

Step9: Store temp in second

Step10: Print the statement After Swap

Step11: Print first number : first

Step12: Print second number

Step13: Stop.

(Start)

Define & initialise first = 1.2af & second = 2.45f.

Print 'Before Swap'

Print 'first number'

Print 'Second Number'

temp = first

first = second

second = temp

```
C:\Users\STUDENT\Desktop\1bm22cs001>java JavaExample2
Enter an integer : 8
8 is an even no
Aakanksha V R 1BM22CS001
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java JavaEx1
```

```
*
```

```
* *
```

```
* * *
```

```
* * * *
```

```
* * * * *
```

```
* * * * *
```

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

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

```
Aakanksha V R 1BM22CS001
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>javac Helloworld1.java
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java Helloworld1
```

```
Enter a number: 4
```

```
You entered:4
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java QANDR
Quotient is: 7
Remainder is: 1
Aakanksha 1BM22CS001
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java QANDR
Quotient is: 7
Remainder is: 1
Aakanksha 1BM22CS001
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java Demo  
Enter first no: 6  
Enter second no: 9  
Output: 54  
Aakanksha 1BM22CS001
```

```
C:\Users\STUDENT\Desktop\1bm22cs001>java Swapnos
--Before swap--
First number= 1.2
Second number= 2.45
--After swap--
First number= 2.45
Second number= 1.2
Aakanksha 1BM22CS001
```