**Assignment 1: Pseudocode Development - Task: Write a detailed pseudocode for a simple program that takes a number as input, calculates the square if it's even or the cube if it's odd, and then outputs the result. Incorporate conditional and looping constructs. in C language.**

**Pseudocode:-**

Start

Print "Enter a number: "

Input number

If number % 2 == 0 then

square = number \* number

Print "The square of given number is: ", square

Else

cube = number \* number \* number

Print "The cube of given " is: ", cube

End

**Algorithm:-**

1. Start
2. Declare variables num , square , cube.
3. Ask the user to enter a number.
4. Read the number from the user and store it in the variable num (i.e number).
5. If num % 2 equals 0 then,

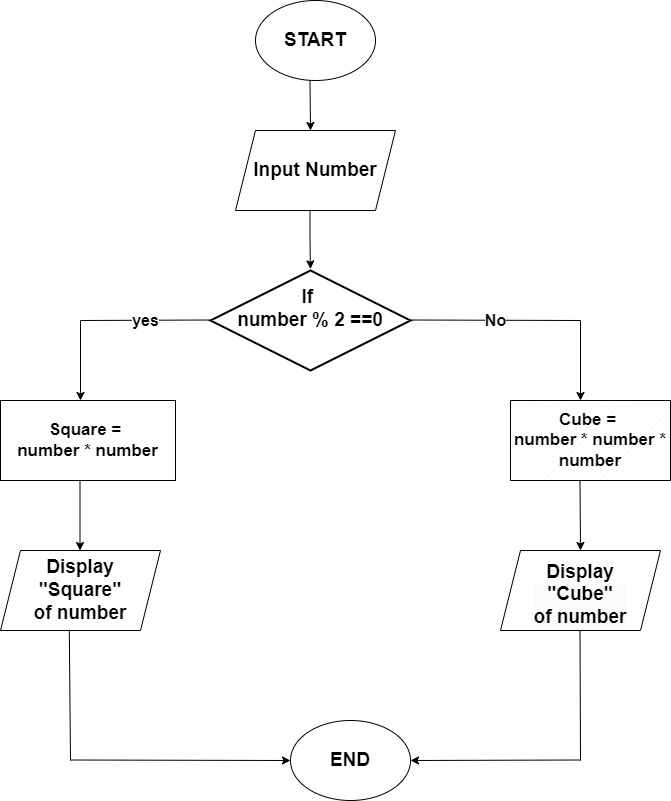
Set result to number multiplied by number (square).

1. Else

Set result to number multiplied by number multiplied by number (cube).

1. Output the result.
2. End

**Flowchart :-**

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