**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.**

**ANS:**

1. **Begin**
2. **Ask user to Enter Number N**
3. **Read N**
4. **Check if N is Even or Odd**

**If(N%2==0) //If even find square**

**Result = N\*N**

**Else // If Odd find Cube**

**Result = N\*N\*N**

1. **Print Result**
2. **END**

**Program:**

**#include <stdio.h>**

**int main()**

**{**

**int n, result;**

**printf("Enter a number: ");**

**scanf("%d", &n);**

**if (n%2 ==0)**

**{**

**result = n\*n;**

**printf("The square of %d is %d\n", n, result);**

**}**

**else**

**{**

**result = n\*n\*n;**

**printf("The cube of %d is %d\n", n, result);**

**}**

**return 0;**

**}**

**Flowchart:**

**A group of white rectangles with black text

Description automatically generated**