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 No 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:

