

Assignment 1 –

Pseudocode Development – Task : Write a detailed pseudocode for a simple program that takes a number as input, calculate the square if it's even or the cube if it's odd, and then outputs the result. Incorporate conditional and looping constructs.

Solution :-

1. Start.
2. Enter a number.
3. Read the input and store the value in “x” variable.
4. Check if the number is “even or odd”.
5. If “x” modulo 2 equals 0 then go to step 6, or go to step 8.
6. $\text{Result} = x * x$ (Calculate the square of “x”).
7. Print the output as “The square of x is”.
8. Else the “x” is odd go to step 9.
9. $\text{Result} = x * x * x$ (Calculate the cube of “x”).
10. Print the output as “The cube of x is”.
11. End.