Day 1: Assignment 1

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.

Pseudo code:

* Start
* Accept the input number from the user and store it in a variable, let's denote it as Num
* If the Num is even:

1. Calculate the square of Num
2. Display the result as "The square of the Num is <result>"

* If the Num is odd:

1. Calculate the cube of Num
2. Display the result as "The cube of the Num is <result>"

Example:

import java.util.Scanner;

public class Main

{

public static void main(String[] args)

{

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = scanner.nextInt();

if (number%2==0)

{

int square = number\*number;

System.out.println("The square of " +number+ " is: " +square);

}

else

{

int cube = number\*number\*number;

System.out.println("The cube of " +number+ " is: " +cube);

}

scanner.close();

}

}