Objectives:
1. To understand the nested Loop concept.
2. To gain familiarity with the syntax of nested Loops.
3. To understand the critical points of the Loop for testing and debugging.
4. To introduce Object Oriented Programming.
5. To understand the need for Object Oriented Programming.

Reading Assignment:
1. Nell/Chip/Mark, Chapter 5 and 6

Concepts:
1. Nested Loop
2. Loop Testing and debugging
3. Object Oriented Programming
1. Nested Loops
   - What is a Nested Loop?
   - Pattern of a Nested loop.
   - Nested loop design.
   - Using Nested loops.
   - An algorithm that uses Nested Loops

2. Loop testing and debugging
   - Infinite loops.
   - Loop termination condition
   - Algorithm walk-through.
   - Debuggers.

3. Object Oriented Programming
   - What is Object Oriented programming?
   - Why is it needed?
   - More OOP vocabulary.
   - Example: An object of class time.
Objectives:
1. To reinforce the if else statements

Student Activities:
1. Perform the Nell Dale chapter 4 exercise 3

Lab Solution:
// Program Shell4 inputs a temperature and prints an appropriate message

import java.io.*;

public class Shell4
{
    public static void main(String[] args) throws IOException
    {
        int temperature;
        BufferedReader inData;
        inData =
            new BufferedReader(new InputStreamReader(System.in));

        System.out.println("Enter temperature and press return.");
        temperature = Integer.parseInt(inData.readLine());

        if(temperature>90)
            System.out.println("Visit a neighbor");
        else if(temperature>80 && temperature<=90)
            System.out.println("Turn on air conditioning");
        else if(temperature>70 && temperature<=80)
            System.out.println("Do nothing");
        else if(temperature>66 && temperature<=70)
            System.out.println("Turn on heat");
        else if(temperature<=66)
            System.out.println("Visit a neighbor");
    }
}

O/P: Enter temperature and press return.
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Turn on air conditioning