Daily Program Practice Date 22/12/2023

Program 1: Mininum Index sum of two lists

```
package ishwarchavan.com;

import java.util.*;

public class MinimumIndexNumber {     // Function to print common Strings with minimum
index sum

      static void find(Vector<String> list1, Vector<String> list2){

            Map<String, Integer> map = new HashMap<>();    // mapping Strings to their
indices
            for (int i = 0; i < list1.size(); i++)
                  map.put(list1.get(i), i);

            Vector<String> res = new Vector<String>(); // resultant list

            int minsum = Integer.MAX_VALUE;
            for (int j = 0; j < list2.size(); j++)
            {
                  if (map.containsKey(list2.get(j))){    // If current sum is smaller
than minsum
                        int sum = j + map.get(list2.get(j));
                        if (sum < minsum){
                              minsum = sum;
                              res.clear();
                              res.add(list2.get(j));
                        }

                        else if (sum == minsum)   // if index sum is same then put this
String in resultant list as well
                              res.add(list2.get(j));
                  }
            }

            for (int i = 0; i < res.size(); i++)    // Print result
                  System.out.print(res.get(i) + " ");
      }

      public static void main(String[] args) {     //main program created

            Vector<String> list1 = new Vector<String>();   // Creating list1
            list1.add("GeeksforGeeks");
            list1.add("Udemy");
            list1.add("Coursera");
            list1.add("edX");

            Vector<String> list2 = new Vector<String>();    // Creating list2
            list2.add("Codecademy");
            list2.add("Khan Academy");
            list2.add("GeeksforGeeks");

            find(list1, list2);     //function calling
      }
}
```

Program 2: Can place flower

```
package ishwarchavan.com;

public class CanPlaceFlower {     //class created
      public static void main(String[] args) {
            int[] flowerbed = {1,0,0,0,1};
            int n = 1;
            System.out.println(canPlaceFlowers( flowerbed,  n));
      }

    public static boolean canPlaceFlowers(int[] flowerbed, int n) {  //function
created
       int leftPointer = 0;
        int currentPointer = flowerbed[0];  //assigning value
        int count=0;
        for (int rightPointer = 1; rightPointer < flowerbed.length; rightPointer++) {
//loop iteration
            if (currentPointer== 0 && currentPointer == leftPointer &&
currentPointer==flowerbed[rightPointer]) {
                count++;
                leftPointer=1;
            }else{
                leftPointer=currentPointer;
            }
            currentPointer=flowerbed[rightPointer];
        }
        if(leftPointer==0 && leftPointer==currentPointer){  //condition checking
            count++;
        }
        return count>=n;    //Returning value
    }
}
```