**PROBLEM 1:**

class Flower

{

public static int maxRose(int[] A)

{

if (A.length == 1) {

return A[0];

}

int incl = A[0];

int excl = Integer.max(A[0], A[1]);

for (int i = 2; i < A.length; i++)

{

int excl\_new = Integer.max(A[i], Integer.max(excl, incl + A[i]));

incl = excl;

excl = excl\_new;

}

return excl;

}

public static void main(String[] args)

{

int[] A = { 10, 5, 2, 1000 };

System.out.println("Maximum flowers Hari can have are:" + maxRose (A));

}

}

**PROBLEM 2:**

public class Candies {

static int Operation(int arr[], int n)

{

int sum = 0;

for (int i = 0; i < n; i++)

sum += arr[i];

if (sum % n != 0)

return -1;

int diff\_sum = 0;

int eq = sum / n;

for (int i = 0; i < n; i++)

diff\_sum += Math.abs(arr[i] - eq);

int count = diff\_sum;

return (count);

}

public static void main(String args[])

{

int arr[] = { 9,7,8,0 };

int n = arr.length;

System.out.println(Operation(arr, n));

}

}