Experiment 3.1

Student Name: Vikash Kumar

UID: 20BCS5714

Branch: CSE

Section/Group: DM_716_B

Semester: 6TH

Date_of_Performance:24/04/2023

Subject Name: Competitive Coding
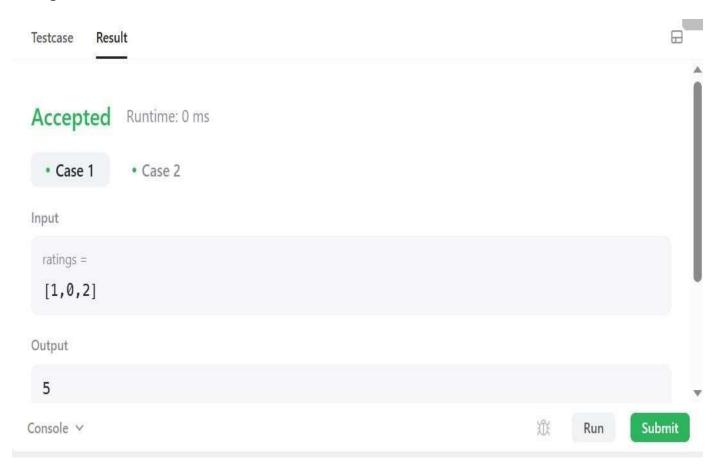
Ques 1: Candy

Code :

```
class Solution {
    public int candy(int[] ratings) {
        int[] res = new
int[ratings.length];

        Arrays.fill(res, 1);

        for(int i = 1;i <
ratings.length;i++){
            if(ratings[i] > ratings[i-
1]){
                res[i] = res[i-1] + 1;
            }
        }

        for(int i = ratings.length-2;i
>= 0;i--){
            if(ratings[i] >
ratings[i+1]){
                res[i] =
Math.max(res[i], res[i+1]+1);
            }
        }

        int sum = 0;

        for(int i = 0;i <
res.length;i++){
            sum += res[i];
        }

        return sum;
    }
}
```

Output:

Testcase   Result

Accepted   Runtime: 0 ms

• Case 1   • Case 2

Input

ratings =

[1,0,2]

Output

5

Console ⌄   Run   Submit

Ques 2: Can Place Flowers

Code:

```
class Solution {

public boolean canPlaceFlowers(int[] flowerbed, int n) {
    if(n == 0) return true;
    int i = 0;
    while(i < flowerbed.length){
        if(flowerbed[i] == 0){

                if((i == 0 || flowerbed[i-1] == 0) && (i == flowerbed.length-1 ||
flowerbed[i+1] == 0)){
                    flowerbed[i] = 1;
                    i += 2;


        n--;
    } else {
        i++;
```

```
            }
        } else {
            i += 2;
        }
        if(n == 0) return true;
    }
    return false;
    }
}
```

Output:

Testcase	Result		

Accepted   Runtime: 7 ms

• Case 1   • Case 2   • Case 3

Input

prices =
[7,1,5,3,6,4]

Output

7

Console ⌄   Run   Submit