JavaScript Monthly Assessment - Closed Batch

1 . To train for an upcoming marathon, Johnny goes on one long-distance run each Saturday. He wants to track how often the number of miles he runs this Saturday exceeds the number of miles run the previous Saturday. This is called a **progress day**.

Take an **array of miles as input** which johnny runs on every Saturday. The task is to find jhonny's **total number of progress days**.

Test Cases:

i. **input** : [3, 4, 1, 2]

output : 2

Explanation: 4>3, 2>1 so totally 2 progress days.

ii. **input** : [10, 11, 12, 9, 10]

output : 3

Explanation: 11>10, 12>11, 10>9 totally 3 progress days.

iii. **input** : [8, 8]

output : 0

Explanation: No progress days

2 **.** Get a string as input which has **alphabets**, **numbers** and **special characters**. The task is to remove all the special characters like **!, @, #, $, %, ^, &, *, (,), /, ,** from the given string. The only non-alphanumeric characters which are allowed are dashes(-), underscores (_) and spaces.

Test Cases:

i. **input** : welcome to DCKAP!!!

output : welcome to DCKAP

ii. **input** : %fd76$cg3- sk94*!@9_juq

output : fd76cg3- sk949_juq

3. Get a words string as input. The task is to print **true** if any two adjacent(near) words has the occurence of **vowel** letter at the **end of the word** and **vowel** letter at the **start of the next word**. Otherwise return false. Vowels are **a, e, i, o, u**

Test Cases:

i. **input** : "a very large appliance"

output : true

Explanation: larg**e a**ppliance has vowels at the end and start of the words

ii. **input** : "an open fire"

output : false

Explanation: No such occurence happened

iii. **input:** "a sudden applause"

output: false

Explanation : No such occurence happened

iv. **input:** "welcome all"

output: true

Explanation : vowels at the end and start of adjacent words

4. Write a function that takes a string as input. The input string contains **letters** and **numbers**. The task is to find the count of letters and count of numbers.

Test Cases:

i. **input** : Hello World

output : Letters = 10

Numbers = 0

ii. **input** : 89028723

output : Letters = 0

Numbers = 8

iii. **input:** h3llo Wo5lD

output: Letters = 8

Numbers = 2

5. Create an array of objects as input which contains **grocery item**, **quantity** and **price**. The task is to find the total price of all the grocery products.

Example of **product object** is :

```
{
  product : “rice” ,
  quantity : 2,
   price : 1
 }
```

- total price = quantity * price

Test Cases:

i. **input** : [{ product : “rice”, quantity : 1, price : 1.5 }]

output : total price = 1.5

Explanation: total price = 1 * 1.5

ii. **input** : [{ product : “rice”, quantity : 1, price : 1.5 },
{ product : “wheat”, quantity : 2, price : 2}]

output : total price = 5.5

Explanation: total price = 1 * 1.5 + 2 * 2 = 5.5

iii. **input:** [{ product : “cereals”, quantity : 2, price : 3 },
{product : “breads”, quantity : 3, price : 3}]

output: total price = 15

Explanation : total price = 2 * 3 + 3 * 3 = 15