

Date: 2nd March 2022

Time: 5 hours Focus: NodeJS

#### **Question 1:**

You have an array containing the following values [10, 20, 60, 30, 54, 39]. Write a function to get the sum of all elements of an array.

Note:- This function should manage different possibilities.

# Example:

var list = [10, 20, 60, 30, 54, 39] var result = solution(list)

Here, the result should contain 213.

#### Question 2:

Write a function:

function solution(A);

that, given an array A of N integers, returns the smallest positive integer (greater than 0) that does not occur in A.

For example, given A = [1, 3, 6, 4, 1, 2], the function should return 5.

Given A = [1, 2, 3], the function should return 4.

Given A = [-1, -3], the function should return 1.

## **Question 3:**

Write a function:

function solution(A);

That will extract even and odd numbers from an array A.

**For example,** given A = [1, 3, 4, 6, 8, 9], the function should return two arrays, index 0 should contain array of odd numbers and index 1 should return array of even number

**Note:** if there are no even or odd numbers, the function should return an empty array.

### Question 4:

symptoms.json

```
"lowMood": "Low mood",
    "sleepOrAppetiteChanges": "Sleep or appetite changes",
    "withdrawal": "Withdrawal",
    "dropInFunctioning": "Drop in functioning",
    "increasedSensitivity": "Increased sensitivity",
    "apathy": "Apathy",
    "feelingDisconnected": "Feeling disconnected",
    "illogicalThinking": "Illogical thinking",
    "nervousness": "Nervousness"
```

## goals.json

```
{
    "hydrate":{
        "title": "Hydrate",
        "description": "",
        "symptoms": [
            "lowMood",
            "apathy"
    ]
},
    "eatBreakfast":{
        "title": "Eat breakfast",
        "description": "",
        "symptoms": [
            "lowMood"
    ]
},
    "yoga": {
        "title": "Yoga",
        "symptoms": [
            "lowMood"
    ]
},
    "petADog": {
        "title": "Pet a dog",
        "description": "",
        "symptoms": [
            "feelingDisconnected",
            "lowMood",
            "increasedSensitivity"
```

```
"description": "",
    "symptoms": [
    "description": "",
    "symptoms": [
    "title": "Deep breathing exercises", "description": "",
    "symptoms": [
    "description": "",
    "symptoms": [
    "description": "",
    "description": "",
"melatonin": {
    "title": "Melatonin",
    "symptoms": [
    "sleepOrAppetiteChanges"
```

From the above two files, we need to get the symptom name from the symptoms.json for each goal.

Write a function to get the value of symptom for each goal in goals.json from symptoms.json

For example: solution("yoga") should return

```
{
    "title": "Yoga",
    "symptoms": [
        "Low mood"
    ]
}
```