1. Write theJs program to the square sum function so that it squares each number passed into it and then sums the results together.
   For example, for [1, 2, 2] it should return 9 because 1^2 + 2^2 + 2^2 = 9.

2. Write a function to split a string and convert it into an array of words.
   Examples (Input ==> Output):
   "Robin Singh" ==> ["Robin", "Singh"]
   "I love arrays they are my favorite" ==> ["I", "love", "arrays", "they", "are", "my", "favorite"]

3. Write a JS program of Convert number to reversed array of digits. Given a random non-negative number, you have to return the digits of this number within an array in reverse order.

   Example(Input => Output):
           348597 => [7,9,5,8,4,3]
           0 => [0]
4. Write the HTML/CSS/Js program to Given an array of integers.

   Return an array, where the first element is the sum of positives numbers and the second element is the sum of negative numbers. 0 is neither positive nor negative.If the input is an empty array, return an empty array.
   Example
   For input [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, -11, -12, -13, -14, -15], you should return [10, -65]

II.
1. Fix **syntax errors** first. Find the mistake in the following code and write it.

```js
let launchReady = false;
let fuelLevel = 17000;


if (fuelLevel >= 20000 {
  console.log('Fuel level cleared.');
  launchReady = true;
} else {
  console.log('WARNING: Insufficient fuel!');
  launchReady = false;

}
```

2. The following block of code hides two syntax errors. Find the mistakes.

```javascript
let launchReady = false;
let crewStatus = true;
let computerStatus = 'green';
if (crewStatus &&& computerStatus === 'green') {
  console.log('Crew & computer cleared.');
  launchReady = true;
} else {
  console.log('WARNING: Crew or computer not ready!');
  launchReady = false;
}
if (launchReady) {
  console.log(("10, 9, 8, 7, 6, 5, 4, 3, 2, 1...");
  console.log("Fed parrot...");
  console.log("Ignition...");
  console.log("Liftoff!");
} else {
  console.log("Launch scrubbed.");
}
```

3. Find the **runtime errors** next. Pay close attention to any line numbers mentioned in the message - these will help you locate and repair the mistake in the code.

```javascript
let launchReady = false;
let fuelLevel = 17000;
if (fuellevel >= 20000) {
  console.log('Fuel level cleared.');
  launchReady = true;
} else {
  console.log('WARNING: Insufficient fuel!');
  launchReady = false;
}
```

```
4.  function displayEvenNumbers(){

      let numbers = [1,2,3,4,5,6,7,8];

      let evenNumbers = [];

      for(let i=0; i<numbers.length-1; i++;){

         if(numbers % 2 = 0); {

            evenNumbers.push(i);

         }

         console.log evenNumbers;

      }
}
```

This program should print [2,4,6,8]. List out the **seven** mistakes in this program.

// HINT - seven things need to be changed here for this to work!
// Start by fixing the syntax errors and then run the function to see what your output is.

```
5.
for(let i=0;i<=20; i=i+5)
{
if(i%2==0)
{
console.log(i);
}
}
```

```
6.  for(let i=25;i< 30; i--)
{
console.log(i);
}
```