Tasks on 5-9-24:

Task-1: for...in Loop with an Array

Create an array of 5 colors: ['red', 'green', 'blue', 'yellow', 'orange'].

Using a for...in loop, print the index of each element in the array.

```js
var colors = ['red','green','blue','yellow','orange'];
side = '';
for(index in colors){
    console.log(index);
    side = side + index +" ";
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
[Running] node "d:\my files\daily_activity\day38\index1.js"
0
1
2
3
4
or
0 1 2 3 4

[Done] exited with code=0 in 0.103 seconds
```

Task-2: for...of Loop with an Array

Create an array of 5 animals: ['cat', 'dog', 'rabbit', 'elephant', 'lion'].

Using a for...of loop, print the name of each animal in the array.

```js
animals = ['cat', 'dog', 'rabbit', 'elephant', 'lion'];
side = '';
for(fauna of animals){
    console.log(fauna);
    side = side + fauna +" ";
}
console.log('or');
console.log(side);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
[Running] node "d:\my files\daily_activity\day38\index2.js"
cat
dog
rabbit
elephant
lion
or
cat dog rabbit elephant lion

[Done] exited with code=0 in 0.097 seconds
```

Task-3: Sum of Array Elements using a while Loop

Create an array of numbers [2, 4, 6, 8, 10].

Using a while loop, calculate and print the sum of the elements in the array.

```js
JS index3.js
1   numbers = [2, 4, 6, 8, 10];//intialization of array
2   result=0;
3   for(x of numbers){
4       result = result + x;
5   }
6   console.log("sum of elements in array(numbers) is :",result);
```

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[Running] node "d:\my files\daily_activity\day38\index3.js"
sum of elements in array(numbers) is : 30

[Done] exited with code=0 in 0.111 seconds

Task 4: Reverse Array using a do...while Loop

Create an array of 5 numbers: [1, 2, 3, 4, 5].

Using a do...while loop, print the array elements in reverse order.

```js
JS index4.js > ...
1    var numbers = [1, 2, 3, 4, 5];//initializing an array numbers
2    var reverse = [];//declaring a array reverse
3    //printing array into reverse
4    var reverse_number = [];
5    var i = numbers.length-1;
6    do{
7        reverse = reverse + numbers[i];
8        i--;
9    }
10   while(i >= 0);
11   console.log("array before reversing :",numbers);
12   console.log("reversed elements in string:",reverse.split(''));
13   for(i=0;i<reverse.length;i++){
14       reverse_number[i] = Number(reverse[i]);
15   }
16   console.log("reversed elements in Numbers",reverse_number);
17
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
[Running] node "d:\my files\daily_activity\day38\index4.js"
array before reversing : [ 1, 2, 3, 4, 5 ]
reversed elements in string: [ '5', '4', '3', '2', '1' ]
reversed elements in Numbers [ 5, 4, 3, 2, 1 ]

[Done] exited with code=0 in 0.101 seconds
```

Task-5: Sum of Even Numbers using do...while Loop

Given an array of numbers [3, 6, 9, 12, 15, 18], use a do...while loop to find the sum of even numbers.

```js
JS index5.js > ...
1    var numbers = [3, 6, 9, 12, 15, 18];// initializing an array
2    var even = 0;//initializating a varible for storing even sum
3    var i = 0;
4    do{
5        if(numbers[i]%2==0){
6            even = even + numbers[i];
7        }
8        i++;
9    }
10   while(i < numbers.length);
11   console.log("sum of even numbersin an array is :",even);
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

[Running] node "d:\my files\daily_activity\day38\index5.js"
sum of even numbersin an array is : 36

[Done] exited with code=0 in 0.109 seconds
```

Task-6 : Reverse the Array using a while Loop

Create an array ['a', 'b', 'c', 'd', 'e'] and reverse the elements using a while loop without using any built-in array reverse methods.

```js
JS index6.js > ...
1    aplhabets = ['a', 'b', 'c', 'd', 'e'];
2    var reverse = [];
3    var reverse_number = [];
4    var i = aplhabets.length-1;
5    while(i >= 0){
6        reverse = reverse + aplhabets[i];
7        i--;
8    }
9    console.log("array before reversing :",aplhabets);
10   console.log("array after reversing :",reverse.split(''));
11   
12
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

[Running] node "d:\my files\daily_activity\day38\index6.js"
array before reversing : ['a', 'b', 'c', 'd', 'e']
array after reversing : ['e', 'd', 'c', 'b', 'a']

[Done] exited with code=0 in 0.109 seconds