ASSIGNMENT 8

1)Write the code for the following question?

Input: var array = [3,5,10,15,23,22,25,35,56]

Code:

```
var arr = [3, 5, 10, 15, 23, 22, 25, 35, 56];
var arr1 = [];
for (i in arr) {
  if (arr[i] % 5 == 0) arr1.push(arr[i]);
}
console.log(arr1);
```

Output: [5,10,15,25,35]

Explanation: The given input is [3,5,10,15,23,22,25,35,56], to get the output as [5,10,15,25,35], we need to find each element which is a multiple of 5. Iterate through each element in the array, and if the element is a multiple of 5 then push that element into the new array(arr1) each time using the push () method. Doing on this process after iterating the complete array we get output as [5,10,15,25,35].

2)Write the code for the following question?

Input: var array = ["html", "csS " ,"javaScrIPT" ,"react" ,"angulaR" ,"nodeE" ,"EXPRESs"];

Code:

```
var arr = ["htmL", "csS", "javaScrIPT", "react", "angulaR", "nodeE",
"EXPRESs"];
var arr2 = [];
for (i in arr) {
  if (arr[i].at(-1) == arr[i].at(-1).toUpperCase()) arr2.push(arr[i]);
}
console.log(arr2);
```

Output: ["html","csS","javaScrIPT","angulaR","nodeE"]

Explanation: The given input is ["html", "csS", "javaScrIPT", "react", "angulaR", "nodeE", "EXPRESs"] ,to get the output as : ["html", "csS", "javaScrIPT", "angulaR", "nodeE"] travel entire array and find each element which has last element ending with capital letter. Push that element into the new array(arr2) using the push method.

3) Write the code for the following question?

Input: var array = ['html', 'css', 'js', 'react', 'angular']

Code:

```
var arr = ["html", "css", "js", "react", "angular"];
var arr3 = [];
for (i in arr) {
```

```
  if (i % 2 == 0) {
    arr3.push(arr[i].toUpperCase());
  }
}
console.log(arr3);
```

Output: ['HTML','JS','ANGULAR']

Explanation: The given input is ['html', 'css', 'js', 'react', 'angular'], to get the output as ['HTML','JS','ANGULAR'] visit the each element in the array, convert the elements which are the multiples of 2 into the capital element using toUppeCase() and push that capital element into the new array(arr3).