ASSIGNMENT 11

do-while and while loop

1)Write a javaScript code for the following input

```
Input: var aos = ['mom', 'js', 'malayalam', 'html', 'csss', 'dad']
```

Expected Output: ['mom','dad',malayalam']

Code:

Using for loop

```
var arr = ["mom", "js", "malayalam", "css", "dad"];
var arr2 = [];
for (i = 0; i < arr.length; i++) {
  var str = "";
  for (j = arr[i].length - 1; j >= 0; j--) {
    str = str + arr[i][j];
  }
  if (arr[i] == str) {
    arr2.push(arr[i]);
  }
}
console.log(arr2);
```

Using While loop

```
var arr = ["mom", "js", "malayalam", "css", "dad"];
var arr2 = [];
i = 0;
while (i < arr.length) {
  var str = "";
  j = arr[i].length - 1;
  while (j >= 0) {
    str = str + arr[i][j];
    j--;
  }
  if (arr[i] == str) {
    arr2.push(arr[i]);
  }
  i++;
}
console.log(arr2);
```

Output:

['mom', 'malayalam', 'dad']

Explanation:

Here the array is ['mom', 'js', 'malayalam', 'css', 'dad'], using for loop for(i=0;i<arr.length;i++),it initializes i to 0 and start traversing the array from index 0 to 5.

At each index it checks wether the element is is palindrome or not, if it is palindrome than it is pushed into the new array that arr2[]

To check wether the index element is palindrome or not steps to be followed

- 1.Traverse the element from the reverse using for loop(for j=arr[i].length-1;j>=0;j--)
- 2.Take an empty string str = ' '
- 3.Store each word from reverser traversing into the empty string str=str+arr[i][j]
- 4.After traversing entire element , check if str == arr[i], incase str == arr[i] then push arr[i] into new array that is arr2
- 5.Continue this process until you reach the end of array.