```
1    let test = [];
2    let std = {id: 63130500000, name: 'KMUTT'};
3
4    console.log(test); //[]
5
6    //push() = add new value to lastest index in array
7
8    //1.
9    test.push(10,'Hello');
10
11   //2.
12   test.push(std);
13
14   //3.
15   let a = test.push(1000); //assign total number of index to variable 'a'
16
17   console.log(a); //4 (array.length)
18   console.log(test); //[ 10, 'Hello', { id: 63130500000, name: 'KMUTT' }, 1000 ]
19   //console.log(test.length === a? 'y':'n');
20
21   //fliter()
22
23   //1.
24   let sort = value => value > 50;
25   let filtered1 = test.filter(sort); //filter array by calling variable that stored arrow function
26   console.log('filtered1 = ' + filtered1); //[ 1000 ]
27
28   //2.
29   let filtered2 = test.filter(value => value === 'Hello');//filter array by arrow function
30   console.log('filtered2 = ' + filtered2); //[ 'Hello' ]
31
32   //3.
33   let filtered3 = test.filter(value => value <= 10); //filter array by arrow function
34   console.log('filtered3 = ' + filtered3); //[ 10 ]
35
36   //4.
37   let filtered4 = test.filter(obj => obj.name === 'KMUTT'); //find word 'KMUTT' in case of things you want to filter contain in obj.
38   console.log(filtered4); //[ { id: 63130500000, name: 'KMUTT' } ]
39
40   //pop() = remove lastest index of array
41
42   //1.
43   test.pop() //remove last index in array that is 10000
44   console.log(test); //[10, 'Hello', { id: 63130500000, name: 'KMUTT' } ]
45
46   //2.
47   let x = test.pop() //bring the lastest index to assign in variable 'x' and remove value in array at the same time that is { id: 63130500000, name: 'KMUTT'}
48   console.log(x); //[ { id: 63130500000, name: 'KMUTT' } ]
49
50   //3.
51   test.pop(); //remove 'Hello'
52   console.log(test); // [ 10 ]
```

Output

```
supapitr@pchs-mbp 07WebProClient % node Assingnment04-2.js
[]
4
[ 10, 'Hello', { id: 63130500000, name: 'KMUTT' }, 1000 ]
filtered1 = 1000
filtered2 = Hello
filtered3 = 10
[ { id: 63130500000, name: 'KMUTT' } ]
[ 10, 'Hello', { id: 63130500000, name: 'KMUTT' } ]
{ id: 63130500000, name: 'KMUTT' }
[ 10 ]
```