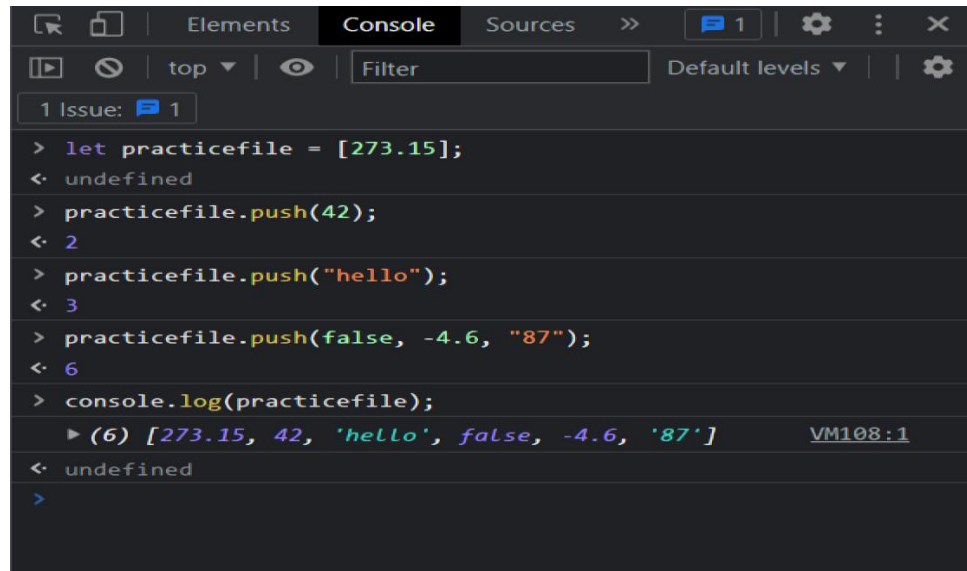


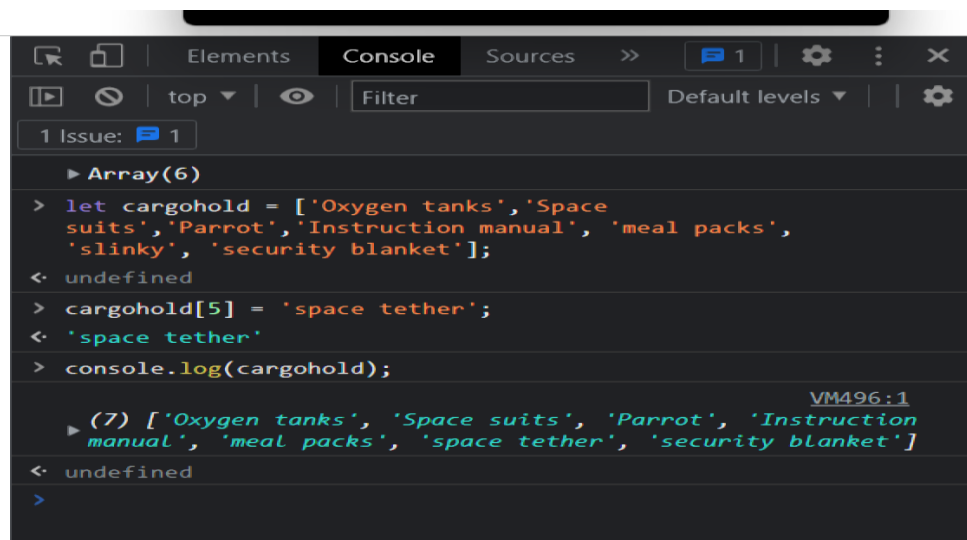
ASSIGNMENT -3

1.



```
Elements Console Sources >> 1 | Settings | Filter | Default levels | Settings
1 Issue: 1
> let practicefile = [273.15];
< undefined
> practicefile.push(42);
< 2
> practicefile.push("hello");
< 3
> practicefile.push(false, -4.6, "87");
< 6
> console.log(practicefile);
  ▶ (6) [273.15, 42, 'hello', false, -4.6, '87'] VM108:1
< undefined
>
```

2.A



```
Elements Console Sources >> 1 | Settings | Filter | Default levels | Settings
1 Issue: 1
  ▶ Array(6)
> let cargohold = ['Oxygen tanks','Space suits','Parrot','Instruction manual', 'meal packs', 'slinky', 'security blanket'];
< undefined
> cargohold[5] = 'space tether';
< 'space tether'
> console.log(cargohold);
  ▶ (7) ['Oxygen tanks', 'Space suits', 'Parrot', 'Instruction manual', 'meal packs', 'space tether', 'security blanket'] VM496:1
< undefined
>
```

B

```
1 Issue: 1
  ▶ Array(6)
  ▶ Array(7) VM496:1
> let remove = cargohold.pop();
< undefined
> console.log(remove);
security blanket VM555:1
< undefined
> console.log(cargohold);
(6) ['Oxygen tanks', 'Space suits', 'Parrot', 'Instruction manual', 'meal packs', 'space tether'] VM559:1
< undefined
>
```

C

```
1 Issue: 1
  ▶ Array(6)
  ▶ Array(6) VM496:1
security blanket VM555:1
  ▶ Array(6) VM559:1
> let remove1 = cargohold.shift();
< undefined
> console.log(remove1);
Oxygen tanks VM613:1
< undefined
> console.log(cargohold);
(5) ['Space suits', 'Parrot', 'Instruction manual', 'meal packs', 'space tether'] VM617:1
< undefined
>
```

D

```
Oxygen tanks VM613:1
  ▶ Array(6) VM617:1
> cargohold.unshift(1138);
< 7
> cargohold.push("20 meters");
< 8
> console.log(cargohold);
(8) [1138, 1138, 'Space suits', 'Parrot', 'Instruction manual', 'meal packs', 'space tether', '20 meters'] VM764:1
  0: 1138
  1: 1138
  2: "Space suits"
  3: "Parrot"
  4: "Instruction manual"
  5: "meal packs"
  6: "space tether"
  7: "20 meters"
  length: 8
  ▶ [[Prototype]]: Array(0)
< undefined
```

E

```
Elements Console Sources >> 1 | Settings | Filter Default levels | Settings
1 Issue: 1
▶ Array(6)
▶ Array(8) VM496:1
security blanket VM555:1
▶ Array(8) VM559:1
Oxygen tanks VM613:1
▶ Array(8) VM617:1
▶ Array(8) VM764:1
> console.log(`Array = ${cargohold} length = ${cargohold.length}`);
Array = 1138,1138,Space suits,Parrot,Instruction manual,meal packs,space tether,20 meters length = 8 VM797:1
< undefined
>
```

3.A

```
< /
> console.log(cargohold);
(7) [1138, 'Space suits', 'Parrot', 'Instruction manual', 'meal packs', 'space tether', '20 meters'] VM623:1
< undefined
> console.log(`Array = ${cargohold} length = ${cargohold.length}`);
Array = 1138,Space suits,Parrot,Instruction manual,meal packs,space tether,20 meters length = 7 VM627:1
< undefined
> cargohold.splice(3,0,'keys');
< ▶ []
> console.log(cargohold);
(8) [1138, 'Space suits', 'Parrot', 'keys', 'Instruction manual', 'meal packs', 'space tether', '20 meters'] VM679:1
< undefined
>
```

B

```

    manual,meal packs,space tether,20 meters length = 7
  < undefined
  > cargohold.splice(3,0,'keys');
  < ▶ []
  > console.log(cargohold);

  VM679:1
  ▶ (8) [1138, 'Space suits', 'Parrot', 'keys', 'Instruction
    manual', 'meal packs', 'space tether', '20 meters']
  < undefined
  > let f = cargohold.indexOf("instruction manual");
  < undefined
  > delete cargohold [f];
  < true
  > console.log(cargohold);

  VM736:1
  ▶ (8) [1138, 'Space suits', 'Parrot', 'keys', 'Instruction
    manual', 'meal packs', 'space tether', '20 meters']
  < undefined
  >

```

C

```

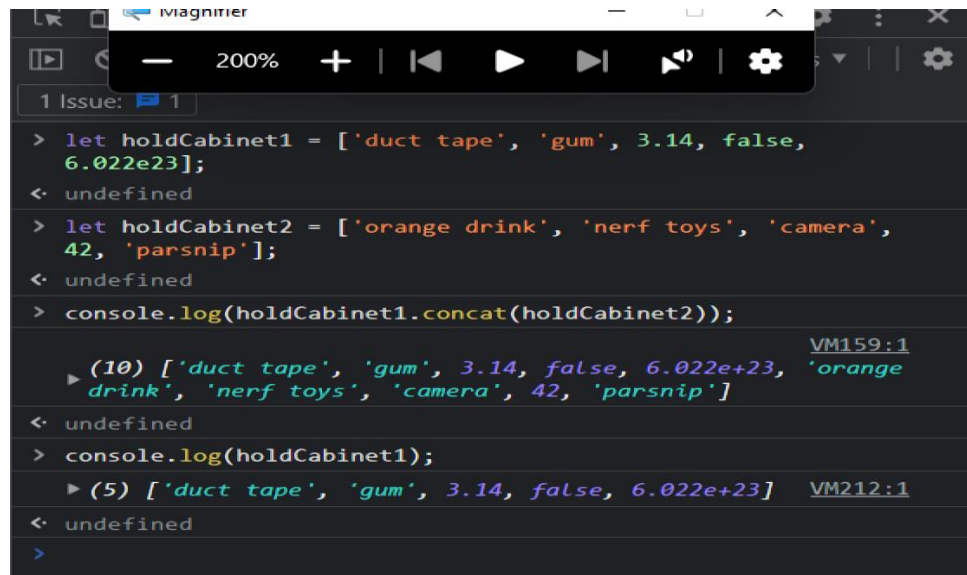
  < undefined
  > let f = cargohold.indexOf("instruction manual");
  < undefined
  > delete cargohold [f];
  < true
  > console.log(cargohold);

  VM736:1
  ▶ (8) [1138, 'Space suits', 'Parrot', 'keys', 'Instruction
    manual', 'meal packs', 'space tether', '20 meters']
  < undefined
  > cargohold.splice(2,3,"cat","fog","string cheese");
  < ▶ (3) ['Parrot', 'keys', 'Instruction manual']
  > console.log(cargohold);

  VM849:1
  ▶ (8) [1138, 'Space suits', 'cat', 'fog', 'string cheese',
    'meal packs', 'space tether', '20 meters']
  < undefined
  >

```

4.A



The screenshot shows a web browser window with the address bar displaying 'magnifier'. The browser's developer console is open, showing a series of JavaScript commands and their outputs. The commands are:
1. `let holdCabinet1 = ['duct tape', 'gum', 3.14, false, 6.022e23];` followed by an undefined return value.
2. `let holdCabinet2 = ['orange drink', 'nerf toys', 'camera', 42, 'parsnip'];` followed by an undefined return value.
3. `console.log(holdCabinet1.concat(holdCabinet2));` followed by the output: `(10) ['duct tape', 'gum', 3.14, false, 6.022e+23, 'orange drink', 'nerf toys', 'camera', 42, 'parsnip']` with a link to `VM159:1`.
4. `console.log(holdCabinet1);` followed by the output: `(5) ['duct tape', 'gum', 3.14, false, 6.022e+23]` with a link to `VM212:1`.
The console also shows a '1 Issue' notification at the top.

```
> let holdCabinet1 = ['duct tape', 'gum', 3.14, false, 6.022e23];
< undefined
> let holdCabinet2 = ['orange drink', 'nerf toys', 'camera', 42, 'parsnip'];
< undefined
> console.log(holdCabinet1.concat(holdCabinet2));
  ▶ (10) ['duct tape', 'gum', 3.14, false, 6.022e+23, 'orange drink', 'nerf toys', 'camera', 42, 'parsnip'] VM159:1
< undefined
> console.log(holdCabinet1);
  ▶ (5) ['duct tape', 'gum', 3.14, false, 6.022e+23] VM212:1
< undefined
>
```

B



The screenshot shows a web browser console with the following JavaScript commands and outputs:
1. `let s1 = holdCabinet1.slice(1,3);` followed by an undefined return value.
2. `let s2 = holdCabinet2.slice(0,2);` followed by an undefined return value.
3. `console.log(s1);` followed by the output: `(2) ['gum', 3.14]` with a link to `VM293:1`.
4. `console.log(s2);` followed by the output: `(2) ['orange drink', 'nerf toys']` with a link to `VM323:1`.
The console ends with an undefined return value and a prompt character.

```
> let s1 = holdCabinet1.slice(1,3);
< undefined
> let s2 = holdCabinet2.slice(0,2);
< undefined
> console.log(s1);
  ▶ (2) ['gum', 3.14] VM293:1
< undefined
> console.log(s2);
  ▶ (2) ['orange drink', 'nerf toys'] VM323:1
< undefined
>
```

C.

```
< undefined
> holdCabinet1.reverse();
< ▶ (5) [6.022e+23, false, 3.14, 'gum', 'duct tape']
> holdCabinet2.sort();
< ▶ (5) [42, 'camera', 'nerf toys', 'orange drink', 'parsnip']
> console.log(holdCabinet1);
VM405:1
▶ (5) [6.022e+23, false, 3.14, 'gum', 'duct tape']
< undefined
> console.log(holdCabinet2);
VM409:1
▶ (5) [42, 'camera', 'nerf toys', 'orange drink', 'parsnip']
< undefined
```

5.A

```
Issue: ▶ 1
> let str = 'In space, no one can hear you code.';
< undefined
> console.log(str.split());
▶ ['In space, no one can hear you code.'] VM128:1
< undefined
> console.log(str.split('e'));
VM162:1
▶ (5) ['In spac', ', no on', ' can h', 'ar you cod', '.']
< undefined
> console.log(str.split(' '));
VM176:1
▶ (8) ['In', 'space,', 'no', 'one', 'can', 'hear', 'you', 'code.']
< undefined
> console.log(str.split(''));
VM180:1
▶ (35) ['I', 'n', ' ', 's', 'p', 'a', 'c', 'e', ',', ' ', 'n', 'o', ' ', 'o', 'n', 'e', ' ', 'c', 'a', 'n', ' ', 'h', 'e', 'a', 'r', ' ', 'y', 'o', 'u', ' ', 'c', 'o', 'd', 'e', '.']
< undefined
```

B

```

1 Issue: 1
> let arr = ['B', 'n', 'n', 5];
< undefined
> console.log(arr.join('a'));
Banana5 VM120:1
< undefined
> console.log(arr.join(' '));
B n n 5 VM149:1
< undefined
> console.log(arr.join(''));
Bnn5 VM153:1
< undefined
>

```

C

```

> let str2 = "java script";
< undefined
> console.log(str2.split(',').sort().join(','));
java script VM277:1
< undefined
>

```

6.A,B

```

> let element1 = ['hydrogen', 'H', 1.008];
< undefined
> let element2 = ['helium', 'He', 4.003];
< undefined
> let element26 = ['iron', 'Fe', 55.85];
< undefined
> console.log(table[1], table[1][1]);

```

7.A

```
> let people = ["Greg", "Mary", "Devon", "James"];
< undefined
> for(let i =0; i< people.length; i++){
  console.log(people[i]);
}
Greg VM73:2
Mary VM73:2
Devon VM73:2
James VM73:2
< undefined
>
```

B,C,D,E

```
> people.shift();
< 'Greg'
> people.pop();
< 'James'
> people.unshift("Matt");
< 3
> people.push("Elie");
< 4
>
```

F

```
> for(let i =0; i< people.length; i++){
  if(i > 1){
    break;
  }
  console.log(people[i]);
}
Matt VM189:5
Mary VM189:5
< undefined
```


G,H,I

```
> people.slice(2);
< ▼ (2) ['Devon', 'Elie'] ⓘ
  0: "Devon"
  1: "Elie"
  length: 2
  ► [[Prototype]]: Array(0)

> people.indexOf("Mary");
< 1

> people.indexOf("Foo");
< -1
```

J

```
> people = ["Greg", "Mary", "Devon", "James"];
< ► (4) ['Greg', 'Mary', 'Devon', 'James']

> people.splice(2,1,"Elizabeth", "Artie");
< ► ['Devon']

>
```

HK

```
> let withBob = people.concat("Bob");
< undefined

>
```