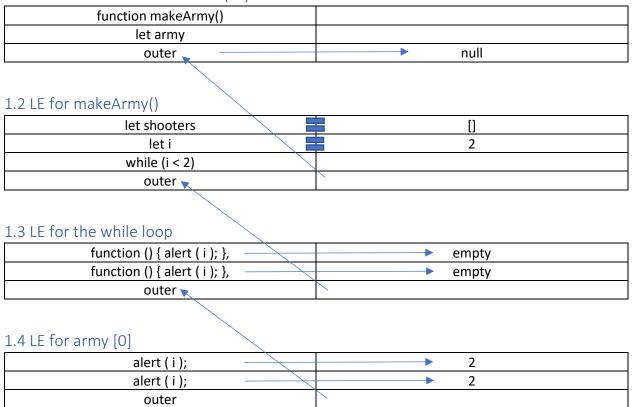
Danyal Javed (612344)

Question 1

1.1: Global lexical environment (LE)



1.5 What will army [0] alert?

It will alert 2 both times.

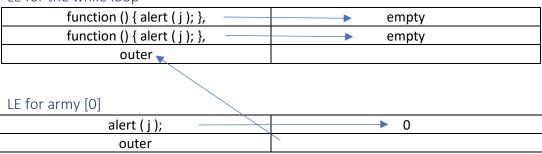
1.6 Can you fix the code?

Problem is that for each iteration new lexical environment is created. So, to fix this, we can copy the value of i into a variable inside loop, like this:

```
function makeArmy() {
  let shooters = [];
  let i = 0;
  while (i < 2) {
    let j = i;
    let shooter = function() {
      alert(j);
    };
    shooters.push(shooter);
    i++;
  }
  return shooters;
}
let army = makeArmy();
army[0];</pre>
```

1.7 How will the diagram change?

LE for the while loop



Question 2

```
function printNumbers(from, to) {
  let cur = from;
  function doit() {
    alert(cur);
    if (cur == to) {
      clearInterval(interval);
    }
    cur++;
  }
  doit();
  let interval = setInterval(doit, 1000);
}
printNumbers(1, 5);
```

Question 3

setTimeout will run only after the current code has finished.

The i will be the **last** one: 100000000.