

Exercise 1: What's the output in the console?

```
function b() {
  const y = 30;
  a();
  function a() {
    console.log(x, y);
  }
  var x = 10;
  console.log(x, y);
}
const x = 20;
var y = 40;
b();
```

output:  
undefined 30  
10 30

Exercise 2: What's the output in the console?

```
function foo(x) {
  let m;
  console.log(x, y);
  if(x > 5){
    var y = 5;
    m = x + y;
  } else {
    let z = 10;
    m = z;
  }
  x = m;
  console.log(x, y);
}

var x = 10;
foo(3);
console.log(x);
```

output :  
3 undefined  
10 undefined  
10

Exercise 3: Write a function `printNumbers (from, to)` that outputs a number every second, starting from `from` and ending with `to`.

```
function printNumbers (from, to){
  let current = from;

  let timerId = setInterval(function(){
    // alert(current);
    console.log(current);
    if(current == to){
      clearInterval(timerId);
    }
    current++;
  }, 1000);
}
```

// printing by passing numbers from 3 to 8  
printNumbers(3, 8);  
// output  
// 3  
// 4  
// 5  
// 6  
// 7  
// 8