Q1: Explain the output of the following code and why

```js

setTimeout(function() {

console.log("1");

}, 100);

console.log("2");

```

The setTimeout function will call the anonymous function (with console.log("1")) after a specified delay.

The anonymous function calls console.log("1") but won’t run it for 100 milliseconds.

In the meantime console.log("2") is called, which isn’t subject to a delay, so it will run immediately. The result will therefore be:

```js

console.log("2");

console.log("1");

```

Q2: Explain the output of the following code and why

```js

function foo(d) {

if(d < 10) {

foo(d+1);

}

console.log(d);

}

foo(0);

```

Q3: If nothing is provided to `foo` we want the default response to be `5`. Explain the potential issue with the following code:

```js

function foo(d) {

d = d || 5;

console.log(d);

}

```

Q4: Explain the output of the following code and why

```js

function foo(a) {

return function(b) {

return a + b;

}

}

var bar = foo(1);

console.log(bar(2))

```

Q5: Explain how the following function would be used

```js

function double(a, done) {

setTimeout(function() {

done(a \* 2);

}, 100);

}

```