Programming Paradigms

Class Activity #6

Q1:

```
fibonacci = (n) ->
    if n < 0
        return null
    if n == 0 || n == 1
        return n

    lastTwo = 0
    lastOne = 1
    output = null
    for i in [2..n]
        temp = lastOne
        lastOne = lastTwo + lastOne
        lastTwo = temp


    return lastOne
```

Q2:

```
a = 0 # scope? global
b = 1 # scope? global

myFunction = (a) ->
    a = 100 # scope? global
    b = 200 # scope? global
    d = 300 # scope? local
    e = 400 # scope? local

myFunction()
```


```
var a = 0; // scope? global
let c = 2; // scope? global
myFunction = () => {
     var a = 100;  // scope? local to myFunction()
     b = 200;      // scope? global
     var d = 300; // scope? local to myFunction()
     let e = 400; // scope? local to myFunction() → because it is declared on the function
block
}

myFunction()
```