Programming Paradigms

Class Activity #5

Q1:

```
let fibGenerator = function () {
    // initial value for n
   let n = 0;
   // tracks the last two values
   let lastTwo = 0, lastOne = 1;
   return () => {
        // base cases
       if( n ==== 0 || n ==== 1) {
            return n - 1; // dec by one because n was already incremented
        }
        // other cases
        let ouput = output = lastTwo + lastOne;
        lastTwo = lastOne;
        lastOne = output;
       n++;
       return output;
   };
};
```

Q2:

- (a) Prints 10
- (b) Prints 6

Q3:

Both are higher order functions because:

- greaterThan: Returns a function
- matchesCriteria: takes a function as a parameter

Q4:

Compile: the process of converting source code to machine (executable) code.

Transpile: the process of converting source code into another source code (in a different programming language at a similar level of abstraction).