

JavaScript - Functional Programming

Closures

```
1 function multiplicationClosure(a) {  
2   return function (b) {  
3     console.log("Product = " + a * b);  
4   };  
5 }  
6  
7 let multiplyWith5 = multiplicationClosure(5);  
8 multiplyWith5(7);  
9  
10 let multiplyWith10 = multiplicationClosure(10);  
11 multiplyWith10(3);  
12
```

↪ Here, b = 7

↪ Here, b = 3

Returns the following anonymous function:-

```
function (b) {  
  console.log("Product = " + 5 * b);  
}
```

Returns the following anonymous function:-

```
function (b) {  
  console.log("Product = " + 10 * b);  
}
```

Currying

multiplicationClosure(5)(7);

↑ a

↓ b