Q3.a

- On External.js ->print the value of number1 on console before number1 definition line ?!

//I will get undefined

console.log(number1);

Q3.b

-Create another internal script before external script in html and print the value of number1?

    <script>

        //I will get number1 is not defined

        console.log(number1);

    </script>

    <script src="./External.js"></script>

Q3.c  
- Now add another internal script after external.js script in html file and print the same value?

    <script src="./External.js"></script>

    <script>

        //I will get value of number1 (6)

        console.log(number1);

    </script>

Q4. A

- try to console.log the values of value1,value2,value3 on consumingScript.js file ??

//will return error of not defined

console.log(value1);

console.log(value2);

console.log(value3);

Q4.B  
-Try to call the function before definition line?

It will print array of 3 values because of hoisting

Q4.c

- Call the function with 3 values then print the return

console.log(printVariables(1,2,3));

Output: Array(3) [ 1, 2, 3 ]

Q4. D  
- Try to call the function with less than 3 parameters printVariables(3,5)

console.log(printVariables(1,2));

output: Array(3) [ 1, 2, undefined ]

To solve the problem we put a default value for value3

function printVariables(value1,value2,value3 = 0){

    return [value1, value2, value3];

}

Q4.e

- What if you call the function with too many parameters ? (more than 3)  
It will only print the 3 values  
  
Can you print them using (arguments)?  
  
Yes using for of on arguments

function printVariables(value1, value2, value3 = 0) {

    let returnArr = []

    for (let arg of arguments) {

        returnArr.push(arg);

    }

    return returnArr;

}

Output: Array(4) [ 1, 2, 3, 4 ]  
  
Q4.f

- Define var localVar=3; testingVar=5; inside the function’s block Before calling the function try to console.log the values localVar and testingVar.??  
  
This will return not defined

Q4.g

- In step f , call the function and try to print localVar and testingVar?

This will return not defined

- Repeat step 1 but define the function as function expression

This will return not defined

Q5.

Functions accept 2 variables and return the summation result Testing: a- What if you insert less than 2 inputs? solve this problem using ES6 feature. b- What if the input is not a Number? Solve this problem using your logic

function test(value1, value2){

    //convert into numbers

    value1 = Number(value1);

    value2 = Number(value2);

    //check if nan

    value1 = isNaN(value1) ? 0 : value1;

    value2 = isNaN(value2) ? 0 : value2;

    //no args passed

    if (arguments.length == 0) return 0;

    //args less than 2, return first one

    if (arguments.length < 2) return value1;

    return value1 + value2;

}

console.log(test(1,2)); //3

console.log(test(1)); //1

console.log(test()); //0

console.log(test("qwe")); //0