ACT #1

Colocar true or false en papel

(true && true)	*True*
(false && true)	*False*
(true && false)	*False*
(false && false)	*False*
(true || true)	*True*
(true || false)	*True*
(false || true)	*True*
(false || false)	*False*
!(false || true)	*False*
!(false && true)	*True*
(!false && true)	*True*
(!true && true)	*False*
(!false || false)	*True*

ACT # 2

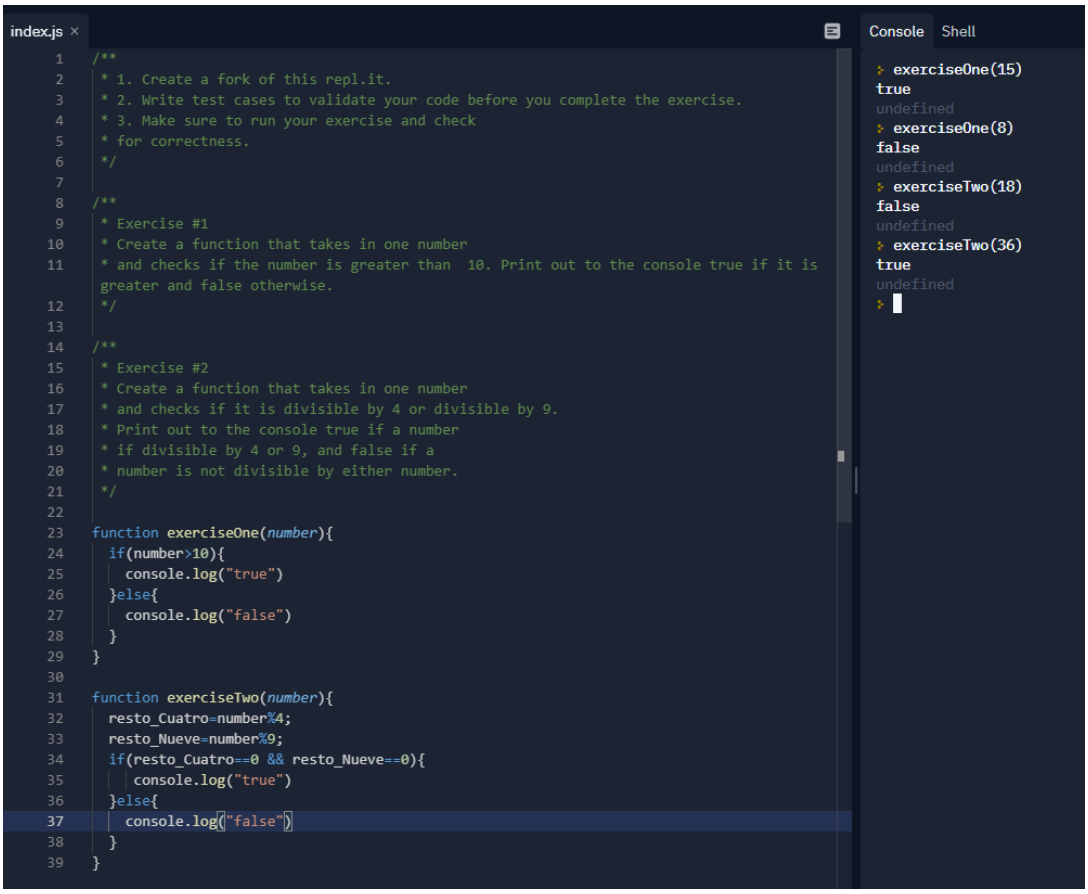
- **Comparison**

```
/**
 * Exercise #1
 * Create a function that takes in one number
 * and checks if the number is greater than  10. Print out to the
console true if it is greater and false otherwise.
 */

function exerciseOne(number){
  if(number>10){
    console.log("true")
  }else{
    console.log("false")
  }
}

/**
 * Exercise #2
 * Create a function that takes in one number
 * and checks if it is divisible by 4 or divisible by 9.
 * Print out to the console true if a number
 * if divisible by 4 or 9, and false if a
 * number is not divisible by either number.
 */

function exerciseTwo(number){
  resto_Cuatro=number%4;
  resto_Nueve=number%9;
  if(resto_Cuatro==0 || resto_Nueve==0){
     console.log("true")
  }else{
    console.log("false")
  }
}
```

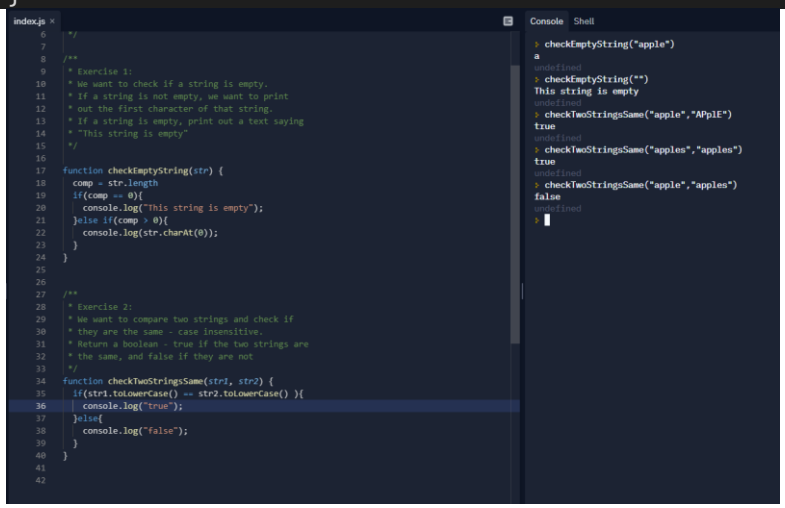

index.js
Console
Shell
/**
* 1. Create a fork of this repl.it.
* 2. Write test cases to validate your code before you complete the exercise.
* 3. Make sure to run your exercise and check
* for correctness.
*/
/**
* Exercise #1
* Create a function that takes in one number
* and checks if the number is greater than 10. Print out to the console true if it is greater and false otherwise.
*/
/**
* Exercise #2
* Create a function that takes in one number
* and checks if it is divisible by 4 or divisible by 9.
* Print out to the console true if a number
* if divisible by 4 or 9, and false if a
* number is not divisible by either number.
*/
function exerciseOne(number){
if(number>10){
console.log("true")
}else{
console.log("false")
}
}
function exerciseTwo(number){
resto_Cuatro=number%4;
resto_Nueve=number%9;
if(resto_Cuatro==0 && resto_Nueve==0){
console.log("true")
}else{
console.log("false")
}
}
exerciseOne(15)
true
undefined
exerciseOne(8)
false
undefined
exerciseTwo(18)
false
undefined
exerciseTwo(36)
true
undefined

- **String Function**

```
* Exercise 1:
 * We want to check if a string is empty.
 * If a string is not empty, we want to print
 * out the first character of that string.
 * If a string is empty, print out a text saying
 * "This string is empty"
 */

function checkEmptyString(str) {
  comp = str.length
  if(comp == 0){
    console.log("This string is empty");
  }else if(comp > 0){
    console.log(str.charAt(0));
  }
}

/**
 * Exercise 2:
 * We want to compare two strings and check if
 * they are the same - case insensitive.
 * Return a boolean - true if the two strings are
 * the same, and false if they are not
 */
function checkTwoStringsSame(str1, str2) {
  if(str1.toLowerCase() == str2.toLowerCase() ){
    console.log("true");
  }else{
    console.log("false");
  }
}
```



- **User Input**

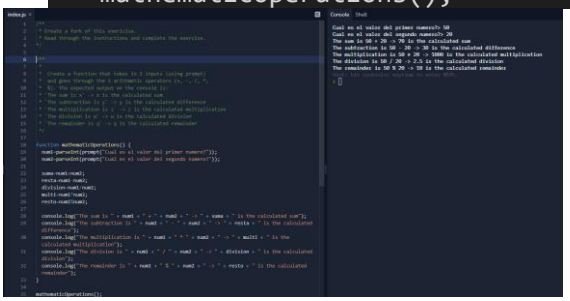
```
/**
 *
 *  Create a function that takes in 2 inputs (using prompt)
 *  and goes through the 5 arithmetic operators (+, -, /, *,
 *  %). The expected output on the console is:
 * `The sum is x` -> x is the calculated sum
 * `The subtraction is y` -> y is the calculated difference
 * `The multiplication is z` -> z is the calculated multiplication
 * `The division is w` -> w is the calculated division
 * `The remainder is q` -> q is the calculated remainder
 */

function mathematicOperations() {
  num1=parseInt(prompt("Cual es el valor del primer numero?"));
  num2=parseInt(prompt("Cual es el valor del segundo numero?"));

  suma=num1+num2;
  resta=num1-num2;
  division=num1/num2;
  multi=num1*num2;
  resto=num1%num2;

  console.log("The sum is " + num1 + " + " + num2 + " -> " + suma + "
is the calculated sum");
  console.log("The subtraction is " + num1 + " - " + num2 + " -> " +
resta + " is the calculated difference");
  console.log("The multiplication is " + num1 + " * " + num2 + " -> "
+ multi + " is the calculated multiplication");
  console.log("The division is " + num1 + " / " + num2 + " -> " +
division + " is the calculated division");
  console.log("The remainder is " + num1 + " % " + num2 + " -> " +
resto + " is the calculated remainder");
}

mathematicOperations();
```



Practice

Part 1:

```
function partOne(){
    respuesta=parseInt(prompt("How many task have you completed?"));
    if(respuesta <= 6 && respuesta >= 0 ){
        console.log("**Failed**")
    }else if(respuesta > 6 && respuesta <= 9){
        console.log("**Insufficiente**");
    }else if(respuesta > 9 && respuesta <= 14){
        console.log("**Good**");
    }else if(respuesta == 15){
        console.log("**Excellent**")
    }else{
        console.log("**Error**")
    }
}

partOne();
```

Part 2:

```
function partTwo(){
let num = [];
let mayor=0;
for(let i=0 ; i<5 ; i++){
    num.push(parseInt(prompt("What is your" + (i+1) + " number ?")));
    console.log(num[i]);
    comp=num[i];
    if(mayor<comp){
        mayor=comp;
    }else{}
}
console.log("The greatest number found was " + mayor);
}

partTwo();
```

Part 3:

```
function partThree(){
    let num = [];
    let menor1=0,menor2=0;

    for(let i=0 ; i<3 ; i++){
        num.push(parseInt(prompt("What is the price of the " + (i+1) + "
item ?")));
        console.log(num[i]);
        comp=num[i];

        if(i==0){
            menor1=num[i];
        }else if(i==1){
            menor2=num[i];
        }else{
            if(comp < menor1 && comp > menor2){
                menor1=comp;
            }
            else if (comp > menor1 && comp < menor2){
                menor2=comp;

            }
            else if(comp < menor1 && comp < menor2){
                if(menor1<menor2){
                    menor2=comp;
                }
                else{
                    menor1=comp;
                }

            }
        }
    }
    console.log("The  2 lowest priced items were $" + menor1 + " and $" +
menor2);
}

partThree();
```