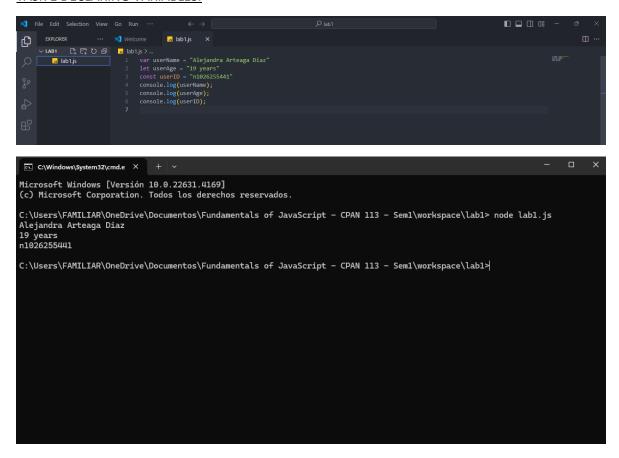
LAB 1: VARIABLES AND DATA TYPES

TASK 1 DECLARING VARIABLES.



Teacher I removed the 'years' in the userAge. I realized about it a few minutes later.

TASK 2 UPDATING VARIABLES

```
    Welcome
    Is lab1,js > ...

1    var userName = "Alejandra Arteaga Diaz"
2    userName = "Gina Paola Diaz"
3    let userAge = 19
4    userAge = 52
5    const userID = "n1026255441"

6    userID = "n918937291"
7    console.log(userName);
8    console.log(userAge);
9    console.log(userID);

10
```

```
Microsoft Windows [Versión 10.0.22631.4169]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1> node lab1.js
Alejandra Arteaga Diaz
19 years
n1026255441

C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1> node lab1.js
C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1> node lab1.js
C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1\lab1.js:6
userID = "N5263403732"

TypeError: Assignment to constant variable.
    at Object. Annonymous> (C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1\lab1.js:6:8)
    at Module._compile (node:internal/modules/cjs/loader:1248:10)
    at Module._cextensions..js (node:internal/modules/cjs/loader:1288:32)
    at Module._load (node:internal/modules/cjs/loader:1288:32)
    at Module._load (node:internal/modules/cjs/loader:1149:12)
    at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:174:12)
    at node:internal/main/run_main_module:28:49

Node.js v20.17.0

C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1>
```

The command prompt displays an error because we are changing the constant variable and it is a variable that can not be changed.

```
C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1> node lab1.js
Gina Paola Diaz
52
n1026255441
```

If we keep the userID constant, the system will show us the username and userAge information updated due to they are variables (changing information).

TASK 3 WORKING WITH DIFFERENT DATA TYPES

```
let score = 95.5;

console.log(score);

let courseName = "Fundamentals of JavaScript";

console.log(courseName);

let isEnrolled = true;

console.log(isEnrolled);

let grades = [99, 95, 88, 92];

console.log(grades[0]);

console.log(grades);

let student ={

name: "Alejandra Arteaga Diaz",

age: 19,

course: "CPAN 113"

};

console.log(student.name);

console.log(student.age);

console.log(student.course);
```

TASK 4 ARITHMETIC OPERATIONS

```
27
28    console.log(userAge + score);
29    console.log(userAge * 2);
30    console.log(userAge * 2);
31    console.log (score / userAge);
32    console.log (score / userAge);
33    console.log (score / userAge);
34    console.log (score / userAge);
35    console.log (score / userAge);
36    console.log (score / userAge);
37    console.log (score / userAge);
38    console.log (score / userAge);
39    console.log (score / userAge);
40    console.log (score / userAge);
41    console.log (score / userAge);
42    console.log (score / userAge);
42    console.log (score / userAge);
42    console.log (score / userAge);
43    console.log (score / userAge);
44    console.log (score / userAge);
45    console.log (score / userAge);
45    console.log (score / userAge);
46    console.log (score / userAge);
47    console.log (score / userAge);
48    console.log (score / userAge);
48    console.log (score / userAge);
49    console.log (score / userAge);
40    console.log (score / userAge);
41    console.log (score / userAge);
41    console.log (score / userAge);
41    console.log (score / userAge);
42    console.log (score / userAge);
43    console.log (score / userAge);
43    console.log (score / userAge);
43    console.log (score / userAge);
44    console.log (score / userAge);
45    console.log (score / userAge);
46    console.log (score / userAge);
46    console.log (score / userAge);
47    console.log (score / userAge);
48    console.log (score / userAge);
48    console.log (score / userAge);
49    console.log (score / userAge);
40    console.
```

TASK 5 COMPARISON OPERATIONS

```
132
33  let anotherAge = 48
34  console.log(userAge == anotherAge);
35  console.log(userAge === anotherAge);
36  let anotherScore = 89.7
37  console.log(score < anotherScore);
38  console.log(score >= anotherScore);
39  console.log(isEnrolled);
40
```

```
C:\Users\FAMILIAR\OneDrive\Documentos\Fundamentals of JavaScript - CPAN 113 - Sem1\workspace\lab1> node lab1.js
Gina Paola Diaz
52
n1026255441
95.5
Fundamentals of JavaScript
true
90
[ 90, 95, 88, 92 ]
Alejandra Arteaga Diaz
19
CPAN 113
147.5
43.5
104
1.8365384615384615
false
false
false
true
true
```

TASK 6 CONDITIONAL STATEMENTS

```
greater than 18
This is not a valid option
```

If we select a program that is not listed.

You selected Fundamentals of JavaScript course

greater than 18