

VARIABLES DEMO PROGRAM IN JAVASCRIPT:

```
// THIS IS A DEMONSTRATION OF USING VARIABLES WITH OUTPUT

// PROGRAM START:
console.log(" ");
process.stdout.write("\nTHE VARIABLE OUTPUT PROGRAM:");

// FIRST VARIABLE - CONSTANT NUMBER:
console.log("");
process.stdout.write("\nFIRST GROUP: CONSTANT VALUES");

const FIXED_OUTPUT = 9000;
process.stdout.write("\n\tFirst Constant: " + FIXED_OUTPUT);

// SECOND VARIABLE - CONSTANT NAME:
const FIXED_NAME = 'THE CONTROLLER';
process.stdout.write("\n\tSecond Constant: " + FIXED_NAME);

//VARIABLE WITH CHANGING VALUE:
let outputX = 'This is a variable test value.';
let outputY = 1000;

console.log(" ");
process.stdout.write("\nSECOND GROUP: VARIABLE VALUES");
process.stdout.write("\n\tFirst Set Results: " + outputX + " " + outputY);

outputX = 'This is also a variable test value.';
outputY = 5000;
process.stdout.write("\n\tSecond Set Results: " + outputX + " " + outputY);

//BOOLEAN VALUES:
console.log(" ");
process.stdout.write("\nTHIRD GROUP: BOOLEAN VALUES");

const hasError = false;
process.stdout.write("\n\tFirst Boolean: CONSTANT - chance of error: " +
hasError);
let isAvailable = true;

process.stdout.write("\n\tSecond Boolean: Variable A - availability: " +
isAvailable);
isAvailable = false;
process.stdout.write("\n\tThird Boolean: Variable B - availability: " +
isAvailable);

// PROGRAM END:
console.log("");
process.stdout.write("\nPROGRAM END");
console.log(" ");
console.log(" ");
```

PROGRAM NOTES:

This is a second program in Javascript. It declares and initializes constants and variables and prints them out in combined print statements.

It is notable that I used both `console.log()` and `process.document.write` – but for different reasons:

- `Console.log` was used for output spacing.
- `Process.document.write` was used to actually output the variables.

Also you will see `\n` and `\t` in the output statements.

- `\n` creates a newline.
- `\t` creates a spacing tab.

Both these are useful for spacing and the overall look of the output.