

17. Comparison of two numbers

Filename: compare.js

- a) Create a script that contains two integer variables, `a` and `b`. Give the variables values that you choose.
- b) Check if `a` is greater than `b`, and print to the console either "a is greater than b" or "a is not greater than b".
- c) Vary the values you set for `a` and `b`, and check that the result is as expected in all cases.

Solution:

```
var a = 10;
var b = 15;

if (a < b) {
  console.log("a is greater than b");
}
else {
  console.log("a is not greater than b");
}
```

18. Quiz

Filename: quiz.js

- a) Write a script asking for user input on one or more trivia questions. If you do not know a question, you get a free one here: "What is the name of the capital of Morocco?" (The answer is "Rabat").
- b) Save the correct answer in a text string.
- c) Write an if-test to check if the user has answered the question correctly. If they have answered correctly, the program should print "Exactly!" to the console. If not, the script should print "Sorry, the answer was" and then the correct answer you have saved to the console.

Solution:

```
var answer = prompt("What is the capital of Morocco?");
var correct_answer = "Rabat";

if (answer == correct_answer) {
    console.log("Exactly");
}
else {
    console.log("Sorry, the answer was", correct_answer);
}
```

19. Smaller or larger than.

Filename: smaller.js

- Create a script that takes in a number from the user and prints whether the number is less or greater than 10.
- Then add another test to check if the number is less than or greater than 20.
- Modify the script so that the user only gets one feedback per number entered.

The script should look like this while running:

```
Enter a number:
> 13
The number is between 10 and 20

Enter a number:
> 9
The number is below 10

Enter a number:
> 22
The number is over 20
```

Solution:

```
var numb = prompt("Enter a number:");
console.log(numb);

if (numb < 10) {
    console.log("The number is below 10.");
}
else if (numb > 20) {
    console.log("The number is over 20");
}
else {
    console.log("The number is between 10 and 20");
}
```
