

Loop Exercise

Tutorial 10 Session 10.2, Carey 6e

In this exercise you will create 3 files. I suggest that for exercise 2, start with the file for exercise 1 and rename it with the new filename. Then edit the code as needed and resave. Follow this pattern in constructing exercise 3 from exercise 2.

Exercise 1 - for LOOP:

Create a `for` loop. Use `i = 1;` as the initial value statement. Use `i <= 4;` as the statement indicating the last value. Use `i++` as the increment statement. The output will look like...

```
Loop pass 1
Loop pass 2
Loop pass 3
Loop pass 4
```

Refer to the form of the `for`:

```
for (i = 1; i <= n; i++) {
    statement1;
    statement2;
}
```

Save as MyForLoop.htm.

Then change the `i++` to `++i` and notice there is no difference in this particular situation of the `for` loop. **Resave.**

Exercise 2 - while LOOP:

Starting with the previous MyForLoop.htm file, rewrite the code of the `for` loop to make it into a `while` loop. **Save** it as **MyWhileLoop.htm**. Edit the code to get the same output above yet using the `while` with form:

```
while (condition){
    statement1;
    statement2;
}
```

That is, referring to the above form of the `while`:

- 1) Change the word `for` to the word `while` and edit the condition phrase to `i <= 4`.
- 2) Your `statement1` in the above `while` form will be the `document.write` that you had in the `for` loop.
- 3) Your `statement2` will be `i++;` (or `i = i + 1`).
- 4) Also initialize `i` with the statement `i = 1;` just above the `while` line. **Resave** it as **MyWhileLoop.htm**.

Exercise 3 - do-while LOOP:

Starting with the MyWhileLoop.htm, from above, rewrite the code of the `while` loop to make it into a `do-while` loop. **Save** it as **MyDoWhileLoop.htm**. Edit the code to get the same output above yet using the `do-while` with form:

```
do {
    statement1;
    statement2;
}
while (condition)
```

That is, referring to the above form of the do-while:

- 1) Move the `while (condition)` statement to the end, under the “}” closing bracket.
- 2) Add the word `do` as the top line preceding the “{” opening bracket.
- 3) Resave as **MyDoWhileLoop.htm**.