

Code 102: Intro to Software Development

Class 08

Agenda



1. Review of previous class
 - Share your learning
2. Computer Logic
 - Recap: Discussion Reading
 - Truth Tables
3. Computer Loops
 - Demo: 'while' and 'for'
 - Lab: Add Features

Agenda



1. Review of previous class

- Share your learning

2. Computer Logic

- Recap: Discussion Reading
- Truth Tables

3. Computer Loops

- Demo: 'while' and 'for'
- Lab: Add Features

Initial Thought

“A gentle reminder, sucking at something is the first step to learning something new...”



Declare → variables

Define → functions

parameters
function addNumbers(num1, num2){
 let total = num1 + num2;
 return total;
}

arguments
addNumbers(5, 6);

<review>

What did you learn?

Agenda



1. Review of previous class

- Share your learning

2. Computer Logic

- Recap: Discussion Reading

3. Computer Loops

- Demo: 'while' and 'for'
- Lab: Add Features

What's a loop?

- Quick and easy way to repeat some code
- A sequence of instructions continually repeated until a condition is reached

What's a "while" loop?

- A loop that will repeat while a certain condition is met
- A type of loop that is repeated UNTIL a condition is achieved

<review>

What's a "for" loop?

- Repeats for as long as we tell it to
- Repeated a specific amount of times

What did you learn?

What does increment mean? → Increase

What does decrement mean? → Decrease

Agenda



1. Review of previous class
 - Share your learning
2. Computer Logic
 - Recap: Discussion Reading
3. **Computer Loops**
 - Demo: 'while' and 'for'
 - Lab: Add Features

A while Loop

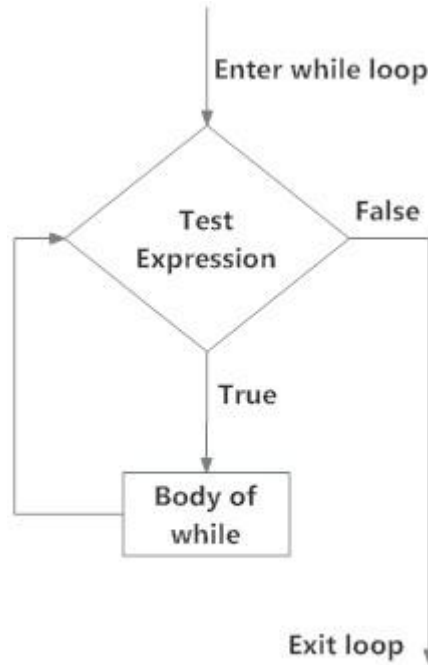
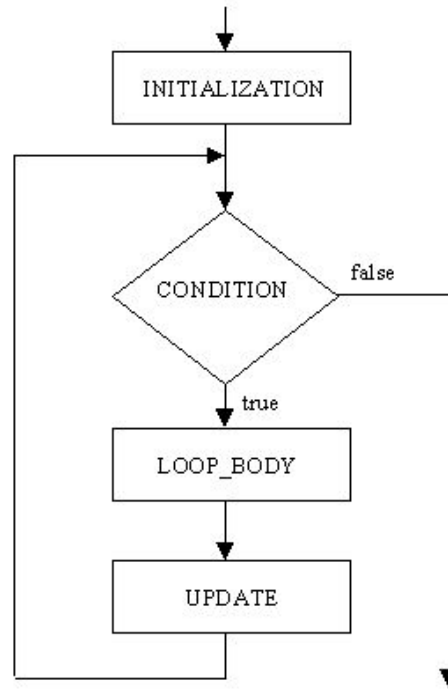


Fig: operation of while loop



A for Loop



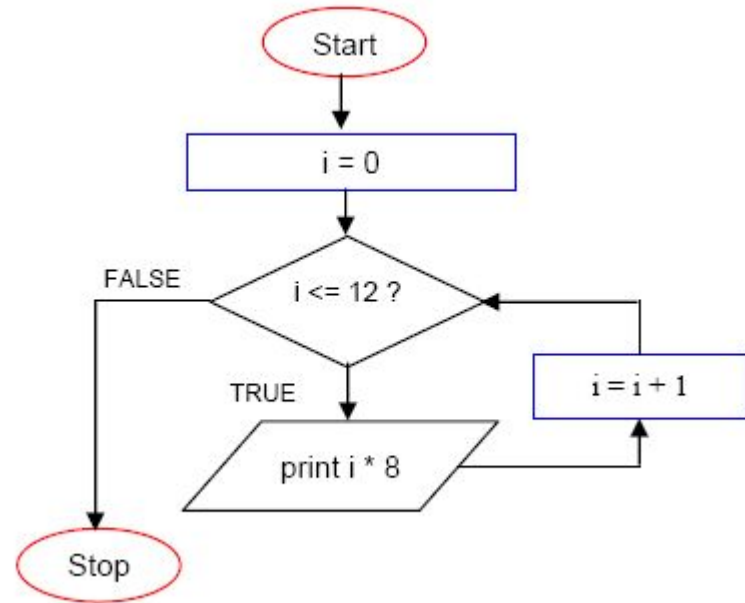
A for Loop

Initialization

condition

update/increment

```
for (let i = 0; i <= 12; i = i + 1) {  
  console.log(i * 8);  
}
```



<demo>

What can we do with our new skills?



Plan it out, then build it out