

# Intro to Programming

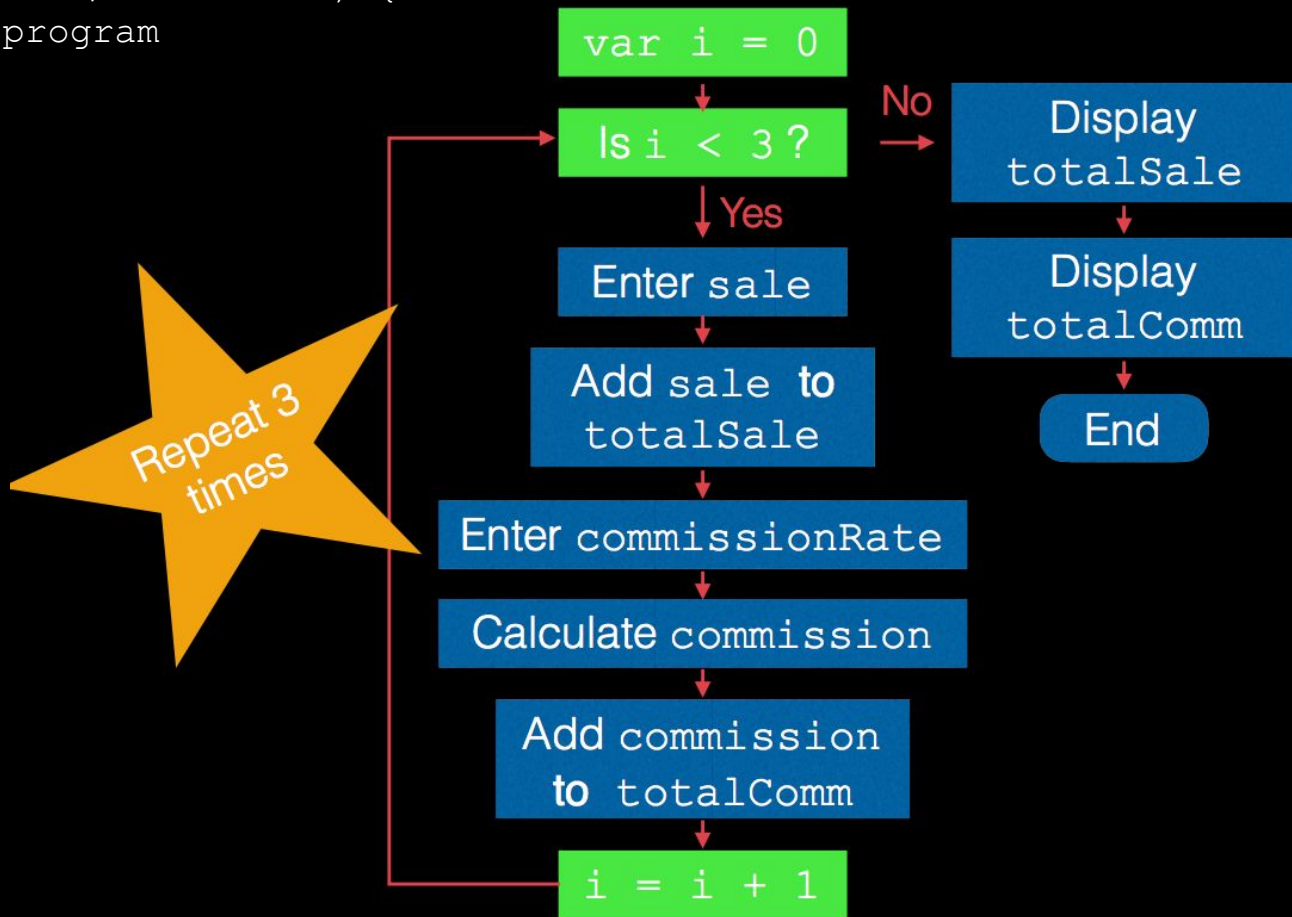
Class 18 - Ms. Santos - 2 Nov 2016

# Open Warm up from last class

`commision.html`

## For Loop

```
For (var i = 0; i < 3; i = i + 1) {  
    //commission program  
}
```



## While Loop

Write a program that prompts the user over and over **indefinitely** for a sale amount and a commission rate. Then print the total commission earned on the HTML page. Use a while-loop.

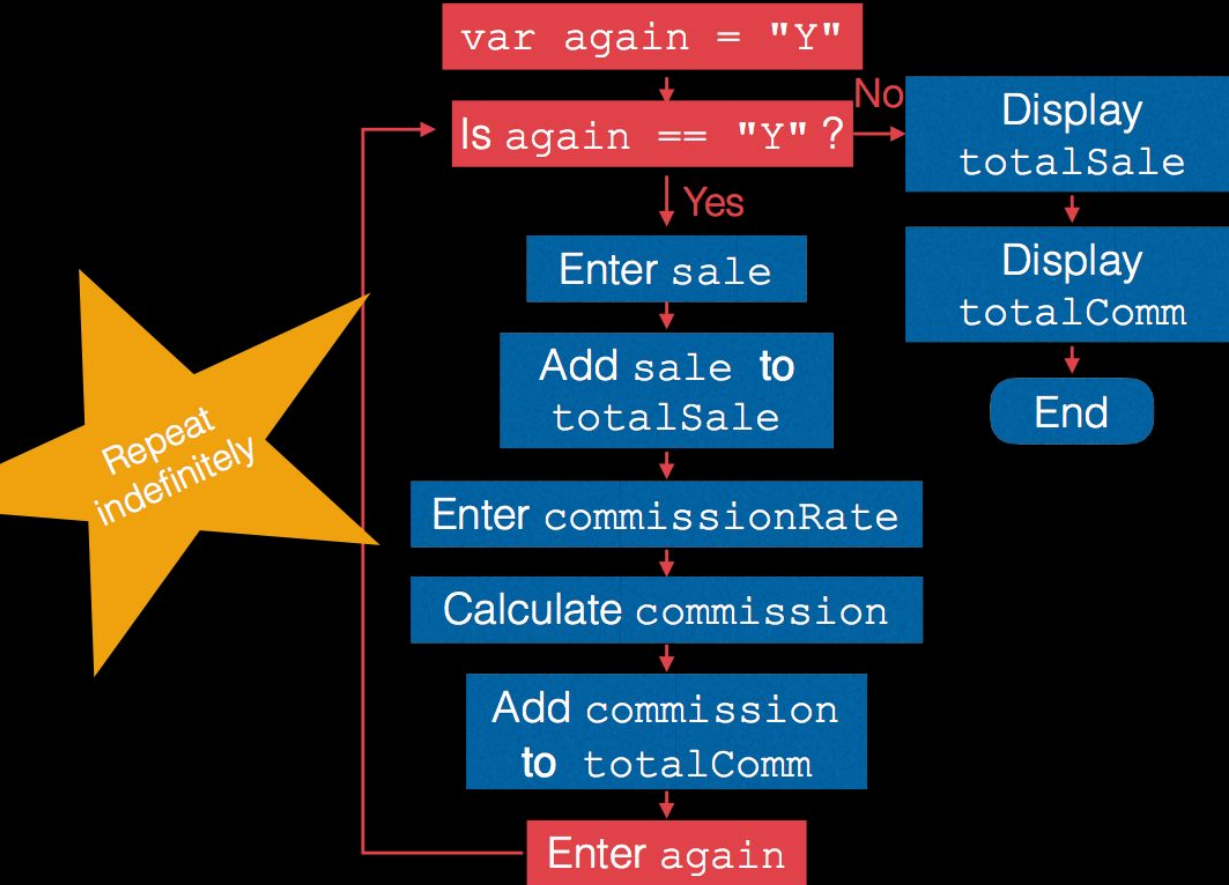
What is the sale amount? **15**  
What is the commission rate (%)? **8**  
Would you like to enter another sale? **Y**

What is the sale amount? **45**  
What is the commission rate (%)? **10**  
Would you like to enter another sale? **Y**

What is the sale amount? **10**  
What is the commission rate (%)? **5**  
Would you like to enter another sale? **N**

Total sales: 70.00  
Total commission: 6.20

# While Loop



## While loop - Indefinite Loop

```
var salesTotal = 0;
var commTotal = 0;
var again = "Y";

while (again == "Y") {
    var sale = parseFloat(prompt("What
    is the sale amount?"));
    var commRate =
    parseFloat(prompt("What is the
    commission rate?"));

    var comm = sale * (commRate /
    100.0);
    salesTotal = salesTotal + sale;
    commTotal = commTotal + comm;

    again = prompt("Enter another
    sale?");
    again = again.toUpperCase();
}
```

## For loop - Definite Loop

```
var salesTotal = 0;
var commTotal = 0;
for (var i=0; i<3; i++) {
    var sale =
    parseFloat(prompt("What is the
    sale amount?"));
    var comm = parseFloat(prompt(
    "What is the commission
    rate?"));

    var comm = sale*(commRate
    /100.0);
    salesTotal = salesTotal + sale;
    commTotal = commTotal + comm;
}
```

# When would you use a while loop?

1. Ask the user for the input again and again

```
while(answer != "Y") { //code }
```

2. Game Loop

```
while (lives > 0) { //game }
```

3. Main Loop/Infinite Loop

```
while (true) { //code }
```

### 3. Main Loop / Infinite Loop

```
while(true) {...}
```

```
while(true) {  
    Check for updates to myStory  
  
    if (update=="Y") {  
        Post new pictures  
    }  
}
```

```
while(quit != "Y") {  
    Check for updates to myStory  
  
    if (update=="Y") {  
        Post new pictures  
    }  
  
    quit = prompt("Quit? Y/N");  
}
```



Practice... Practice... Practice... Practice...  
Practice... Practice... Practice... Practice...

Individual and group work:

- WITH YOUR PARTNER - do H29, H32, and H31 from Haiku.
- ON YOUR OWN - complete 3-2, 3-2, 3-3 on Haiku.
- AGAIN WITH ANOTHER PARTNER - Take a stab at 3-5 Blackjack, it's challenging.

Solutions are on github (except 3-3,3-4, and 3-5).

Assessment is next Tuesday, the 8th of Nov.

Next class: practice assessments and more practice.