

CS 105

Week 2, Part 2

A program so far:

```
var x = readline();  
if (x == 10)  
{  
    print("x is " + x);  
}
```

Example 1

Calculate the final sale price for an item if there is a 40% off sale.

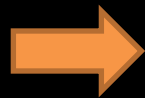
Calculate the final sale price for an item if there is a 40% off sale for items more than \$10.00.

Variable Example

➡ `var a = 10;`

Variable Example

```
var a = 10;
```

 `a = a + 5;`

Variable Example

```
var a = 10;
```

```
a = a + 5;
```

```
→ a = a / 3;
```

Variable Example

```
var a = 10;
```

```
a = a + 5;
```

```
a = a / 3;
```

```
➔ a = a * 10;
```

Variable Example

```
var a = 10;
```

```
a = a + 5;
```

```
a = a / 3;
```

```
a = a * 10;
```

```
➔ if (a > 20)  
  {  
    a = a - 20;  
  }
```

Variable Example

```
var a = 10;
```

```
a = a + 5;
```

```
a = a / 3;
```

```
a = a * 10;
```

```
if (a > 20)
```

```
{
```

```
→ a = a - 20;
```

```
}
```

Conditional + Boolean + Variable

```
if (x < 3)
{

}
```

Conditional + Boolean + Variable

```
if (x < 3)  
{  
  
}
```

```
if (x > 3)  
{  
  
}
```

Conditional + Boolean + Variable

```
if (x < 3)
```

```
{
```

```
}
```

```
if (x > 3)
```

```
{
```

```
}
```

```
if (x == 3)
```

```
{
```

```
}
```

Conditional + Boolean + Variable

```
if (x < 3)
```

```
{
```

```
}
```

```
if (x > 3)
```

```
{
```

```
}
```

```
if (x == 3)
```

```
{
```

```
}
```

```
if (x != 3)
```

```
{
```

```
}
```

Conditional + Boolean + Variable

```
if (x < 3)
{

}
else
{

}
```

Example 1, Version 3

Calculate the final sale price for an item if there is a 40% off sale for items more than \$10.00 and a 60% off sale for items more than \$20.00.

Example 2

Allow the user to prices of any number of items, up until the user enters an item of value \$0.00.

while loop

```
while ( _____ )  
{  
  
}
```

Plain Text Editors

- To write JavaScript, you need a **plain text editor**.
 - Rule of thumb: if you can make the **font bold**, it is not a plain text editor.
- **Windows**: CS 105 recommends Notepad++
 - **NOT** Wordpad, **NOT** Microsoft Word
- **Mac**: CS 105 recommends TextWrangler
 - **NOT** Writer, **NOT** TextEdit , **NOT** Microsoft Word