



4. Write functions for the following:

hair	<p>Draw lines of ##### to represent hair.</p> <p><code>draw_hair(2)</code> should result in output of 2 lines of '#####'</p> <p>##### #####</p>
eyes	<p>Draw eyes either <b>with or without eyebrows</b> depending on a boolean parameter.</p> <p><code>draw_eyes(False)</code> should result in output of @ @</p> <p><code>draw_eyes(True)</code> should result in output of ---- @ @</p>
nose	<p>Draw a nose by printing a character passed to it twice.</p> <p><code>draw_nose(' ')</code> should result in output of   </p>
mouth	<p>Draw equal signs for the mouth.</p> <p><code>draw_mouth(4)</code> should result in output of ====</p>

Create the face on the right using these functions:

```
def main():  
    draw_hair(2)  
    draw_eyes(False)  
    draw_nose("|")  
    draw_mouth(4)
```

```
#####  
#####  
@ @  
  ||  
====
```

## Files

5. Write a function that receives the name of a file, and displays on the screen a copy of that file.

Recall:

```
source_file = open(filename)    # opens a reading connection to a file  
contents = source_file.read()   # returns the contents of the file.
```

6. Add a function that displays the contents of the file in uppercase

7. Add a function that displays the content of the file in reverse

## Complete in lab or for homework

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1. Write a function called `countdown()` to display a count down from 10 to 1 finishing with "Blast Off!"

```
10 9 8 7 6 5 4 3 2 1 Blast Off!
```

2. Modify the function so that it always expects a number and uses this as the starting number for you loop

```
countdown(5)      // 5 4 3 2 1 Blast Off!
countdown(7)      // 7 6 5 4 3 2 1 Blast Off!
```

3. CHALLENGE – TWO PARAMETERS - Modify the function so that it always expects two numbers - one to know where to start and one to know where to end.

- If the end is 1 print "Blast Off!".
- If the end is not 1, print 'Mission Aborted'.

```
countdown(20,9)
20 19 18 17 16 15 14 13 12 11 10 9 Mission Aborted!
countdown(5,1)
5 4 3 2 1 Blast Off!
```

4. Write a Python function named `triangle()` that receives a positive integer value `n` and that prints an triangular pattern of asterisks of \height" `n` e.g.

```
*
**
***
****
*****
```

for `n = 5`.