

### **Conditional Statements Project:**

Building off your alarm clock, you will now write a MELscript program that will display the correct digital time for the following values:

2:00, 4:00, 6:00, 8:00, 10:00 and 12:00

Divide this task into two parts.

#### **Part I:**

1. Create a Window GUI in Maya with buttons that will perform the following:
  - a. select the hour cog wheel
  - b. select the minute cog wheel
  - c. Change the hands to point to 2 o'clock.
  - d. Change the hands to point to 4 o'clock.
  - e. Change the hands to point to 6 o'clock.
  - f. Change the hands to point to 8 o'clock.
  - g. Change the hands to point to 10 o'clock.
  - h. Change the hands to point to 12 o'clock.
  - i. Change the hands to point to 11 o'clock (all numbers on the clock face should be visible)

**Functionality:** When the user clicks the 2 o'clock button on the GUI, the clock should ONLY have 2 o'clock visible. The other clock numbers should disappear.

When the user clicks the 6 o'clock button on the GUI, the clock should ONLY have 6 o'clock visible, etc.

#### **Part II:**

1. **Write a procedure** using a conditional statement that will check the values of the hour hand and minute hand and, based on their settings, immediately display the visibility of 2, 4, 6, 8, 10 and 12 when the hour hand and minute hand are pointing to the appropriate time on your clock.
2. Test your code to insure that it works.
3. **Thoroughly document your code.** Include an overview paragraph describing what your code is supposed to do. Document each line or section as to its specific function. Format your code for readability.

You will only need **one** script file that encompasses Part 1 and 2. Save your script as **Lastname\_Conditional.mel**

**DUE DATE:** This Project is Due at the Beginning of Class on Week 9.

**Grading Rubric below:**

	Excellent (4)	Good (3)	Average (2)	Poor (1)	NOT TURNED IN (0)
<b>Execution</b> 20 points	MEL script flawlessly executes and works as described during the demo.	A minor error prevents the MELscript from running, which is <b>fixed</b> during demo.	MEL script runs, with only partial functionality implemented.	Two or more errors prevents the MELscript from running during the demo.	code does not execute
<b>Documentation</b> 20 points	code fully and neatly commented with student's name, course number, and date at the top of the document. proper syntax- no spelling mistakes. An overview of what the code does is clearly and accurately described.	code neatly commented with student's name, course number, and date at the top of the document. proper syntax- no spelling mistakes - Code does not include an overview at the top of the document.	code includes brief comments with student's name, course number, and date at the top of the document. proper syntax- there may be minor spelling mistakes. Code does not include an overview at the top of the document.	code is sparsely documented. Student's name, course and date not included.	Code is not documented
<b>Technical Specs</b> 20 points	MELscript and MB file included and named as specified in creative brief.	MELscript and MB file included and with minor file naming issues that deviate from creative brief.	MELscript and MB file included but files are not named as specified.	MB or MEL script file missing.	work not turned in.

Total Possible Points: 60 x 2 = **120 points**

**Please note:** Zeros are recorded for projects not turned in. **LATE OR INCOMPLETE WORK NOT ACCEPTED.**