Lab Assignment #10: Patterns & Model Modifications

Instructor: Mike Philpott (email: mphilpot@illinois.edu)
Date Due: One week from Start Day of Lab (turn in deadline – 11pm night before next lab)

Part I. Complete Exercise 13, Tasks 1-3 (pg 297-298)
This exercise works with mirror features.

Part II. Complete Exercise 14, Tasks 1-4 (pg 310-312)
The goal of this exercise is to become familiar with patterns.

Task 1
- Select the appropriate axis in the model tree instead of selecting it in the model window.

Part III. Complete Exercise 15, Tasks 2 thru 8 (pg 331-339)
You will become familiar with feature manipulation in this exercise.

Task 4
- The “Edit Definition” text has changed to the "Edit the Definition" icon in Creo 3.0.

Task 7
0) Follow the following instructions to complete task 7.
1) Drag the DTM1 datum plane up the list and drop it above the "Extrude 1" feature as shown in the book.
2) In the model tree, select the "Revolve 1" feature. In the RMB menu, click the chain icon, "Edit the References".
3) In the "Edit References" dialog box, select the line with the RIGHT datum plane.
4) Select the DTM1 datum plane in either the model window or the model tree.
5) Click OK in the "Edit References" dialog box. The revolve feature should move as shown in the book due to its new DTM1 reference.
6) In the model tree, select the "Revolve 2" feature. In the RMB menu, click the chain icon, "Edit the References".
7) In the "Edit References" dialog box, select the line with the RIGHT datum plane.
8) Select the DTM1 datum plane in either the model window or the model tree.
9) Click OK in the "Edit References dialog box. The revolve feature should move as shown in the book.
Part IV. Submission Requirements

Create a zip file named "<netid>_lab10.zip" with the following files. Submit it for grading through the my.mechse website. Be sure to include the latest version of each part.

netid_4455-002.prt.# (from Part I)
netid_4455-005.prt.# (from Part III)
netid_4455-007.prt.# (from Part I)
netid_4455-008.prt.# (from Part III)