Create Runtime Expression

You can associate physics parameters to geometry when you create a proxy object. An instance of the parameter is created for each instance of the geometry. You can use this to vary the parameter individually in the top assembly.

You will create a **Runtime Expression** to link the **Parameter** created in the **Proxy Object** dialog box to each motor individually.

1. Choose **Home** tab→**Mechanical** group→**Runtime Expression**  .

2. In the graphics window, select the actuator icon  .

   In the **Parameter to Assign** group, the **Property** list will display possible options. For this activity, the default **speed** should be selected.

3. In the **Input Parameter** group, highlight **Select Object**  .

4. In the **Physics Navigator**, select **proxy spindle : Proxy Object**.

   In the **Input Parameter** group, the **Parameter Name** list displays the **Parameter** you created in the **proxy spindle : Proxy Object**.

5. In the **Input Parameter** group, click **Add Parameter**  . The **Parameter** details are now displayed in the table.

6. In the **Expression** group, set **Expression Name** to **motorlink_1**.

7. Set **Formula** to **proxy_spindle**. Setting the **Formula** to the **Alias** of the parameter created in the **Proxy Object** dialog box lets you assign each motor's speed individually later.

8. Click **OK**.