Step 3 — Assign Scopes to Operations

- Scopes do not do anything, one must assign their values to a given operation for a given phase (ie. label). The syntax is as follows

  - assign = operation_name label scope_name

- Notice that the scope is not merely assigned to an operation, but it is assigned to the pairing of an operation and a label. This is because operations can behave differently depending on what phase in the mesh they are invoked on.

- As an example one often turn of mesh optimisation in the ambient phase of the mesh, and have high quality optimisation on the phase representing the object of interest.

Step 4 — Override default values

- The syntax for overriding the default scope assigned parameter values is as follows
  - override = operation_name label parameter_name value
- Here parameter_name is a parameter from the scope file and value is the new value that should be assigned to the given operation when working on the mesh phase with the specified label.
- As an example consider this
  - override = interface_refinement 0 max_iterations 0
- Here we tell GRIT to turn off interface refinement on phase with label=0. This is done by setting the scope parameter name “max_iterations” to the new value 0. Hence GRIT will perform 0 iterations of the interface_refinement for phase 0.