Task 1:

Please add constraints and parametric behavior to the model to ensure the model behaves as specified when the variable dimension(s) take any valid value between the specified bounds
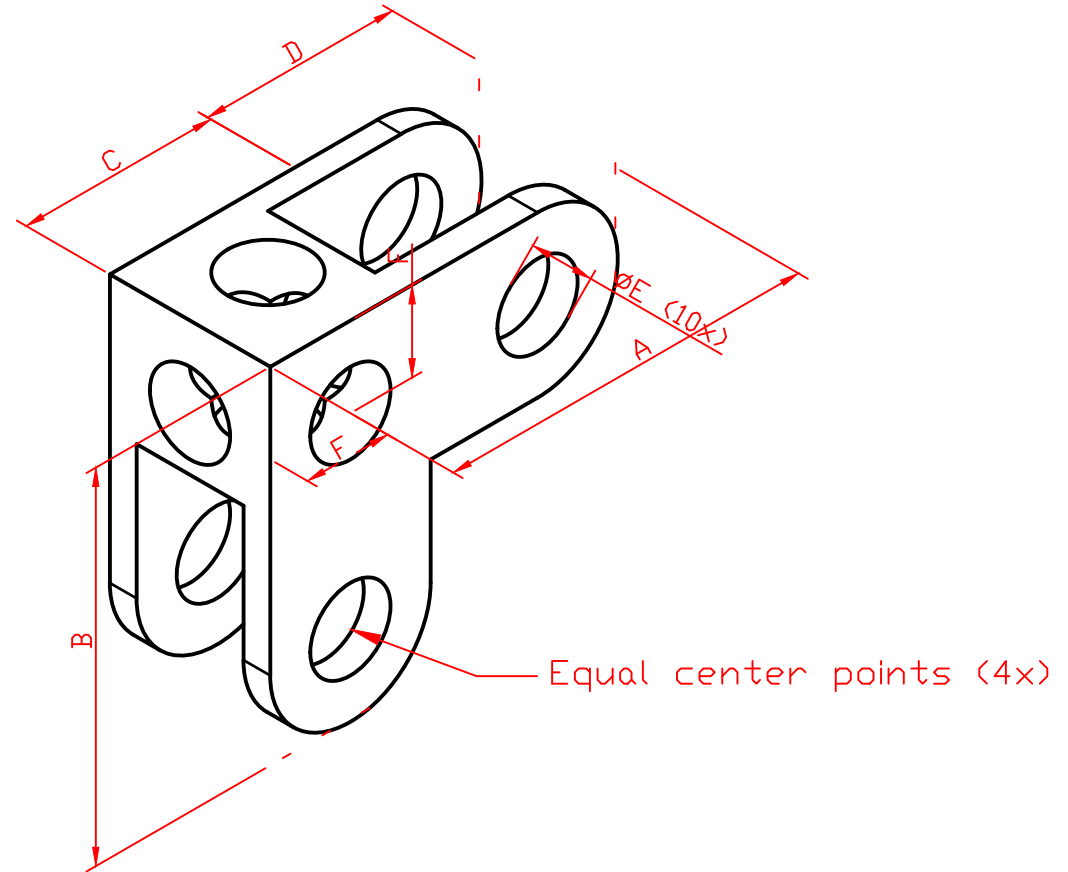
Variable dimension(s):
1.   A is a value that can change between 50mm and 100mm*

Specifications:
1.   B = A
2.   C = D = $\frac{1}{2}$ A
3.   E = 15 (all holes)
4.   F = 15 (for 6 holes in center)
5.   Holes should have same center points as arcs at the ends
6.   All edges that are horizontal should remain horizontal at any value of A
7.   All edges that are vertical should remain vertical at any valid value of A
8.   All angles should remain the same at any value of A

Task 2:

Please ensure the resulting model (i.e. all the sketches) are fully defined.

Although it is not necessary to delete constraints and/or dimensions that are currently present in the model, you are allowed to do so if desired.

*You **do not** have to enforce these limits on the design, but you have to ensure the model behaves as specified within these bounds

** You are given 10 minutes to complete this task. If the allotted time elapses before you finished the task, you will be automatically moved to the next task.