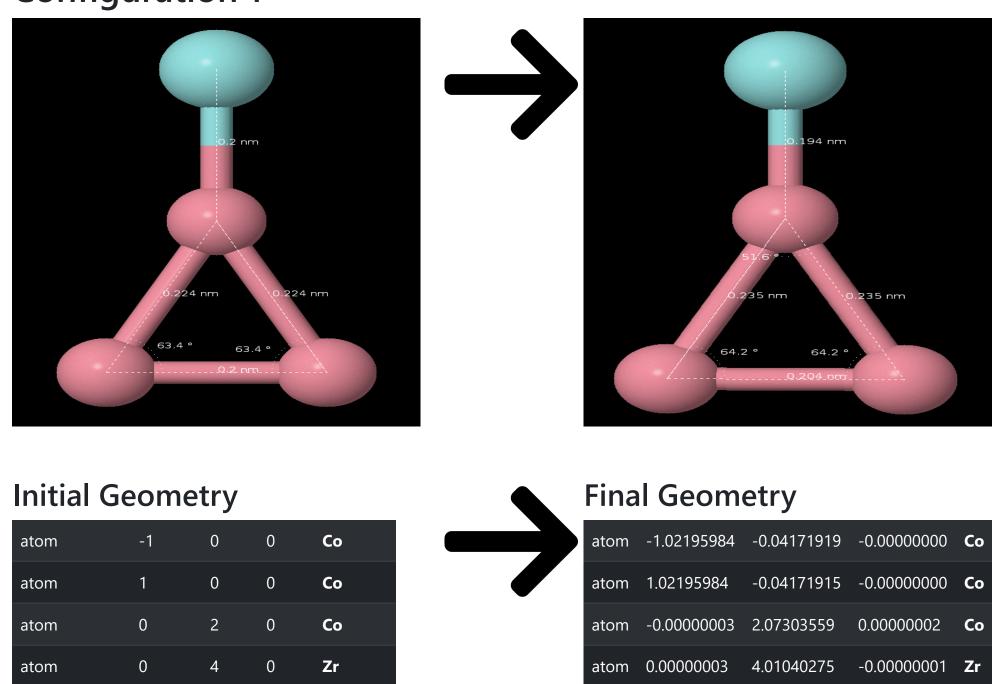
Assignment 3

Name: Harikesh Kushwaha
Entry Number: 2021PHS7181

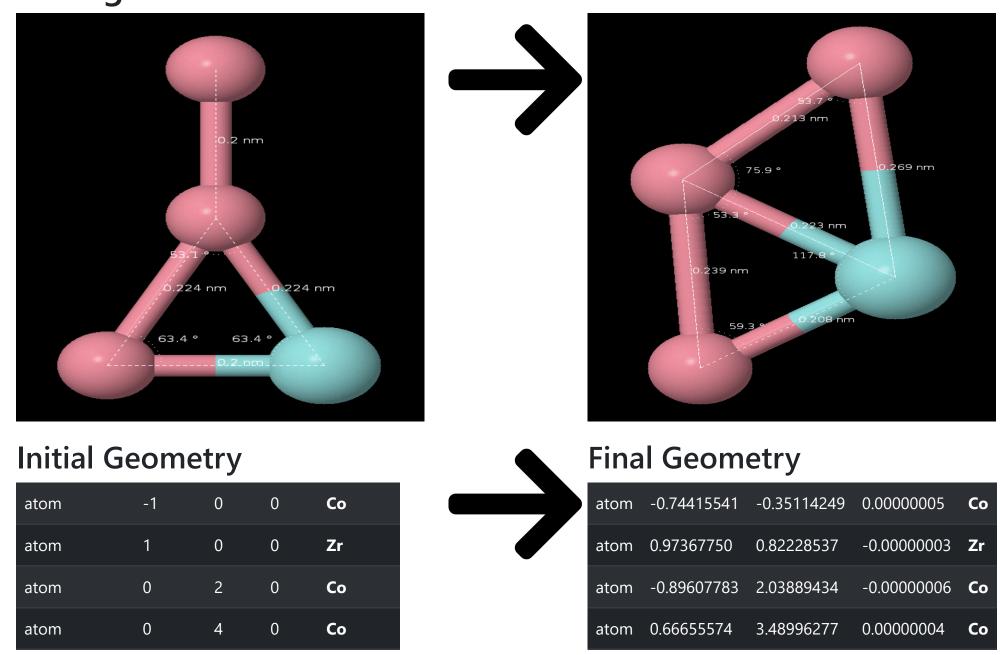
I tried about 15 configuration. The below six are the only that converged. To get the raw data related to these configurations, click here.

Configuration 1

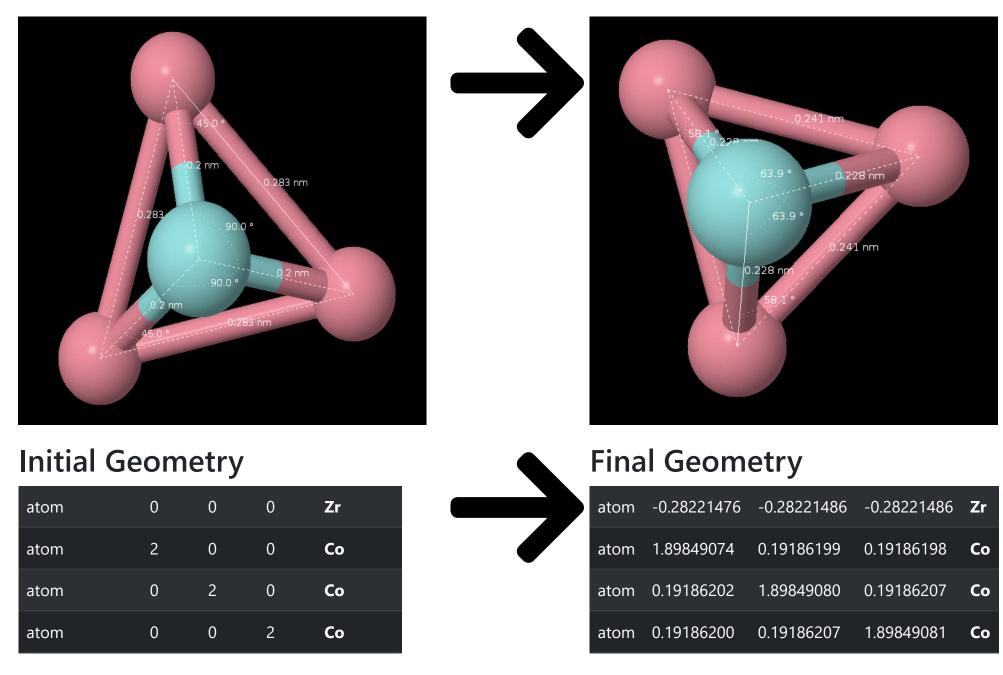


Energy: -212991.530759 eV

Configuration 2

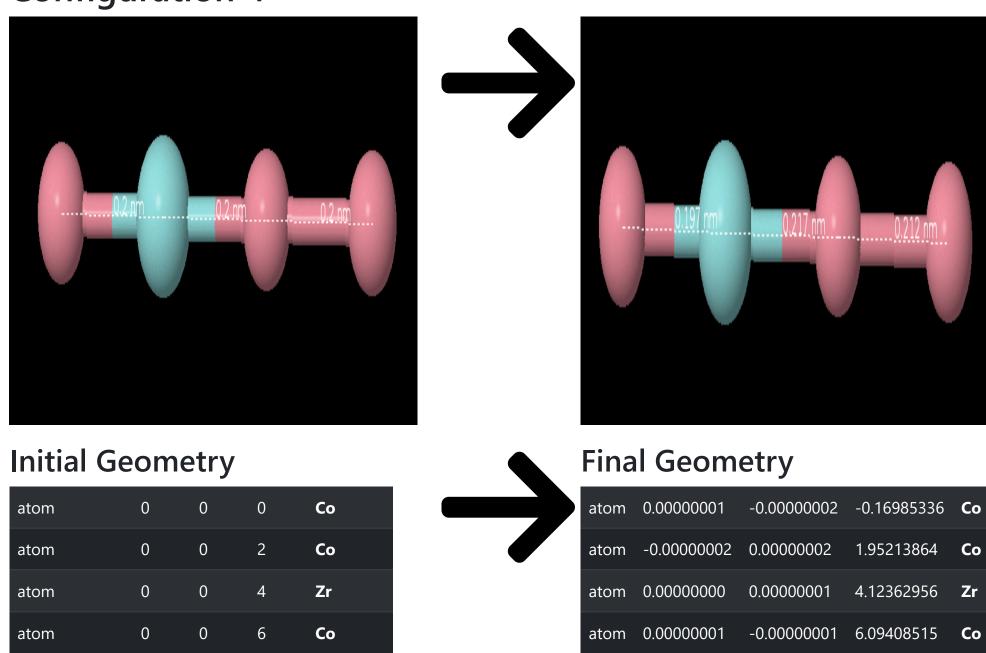


Energy: -212992.883825 eV



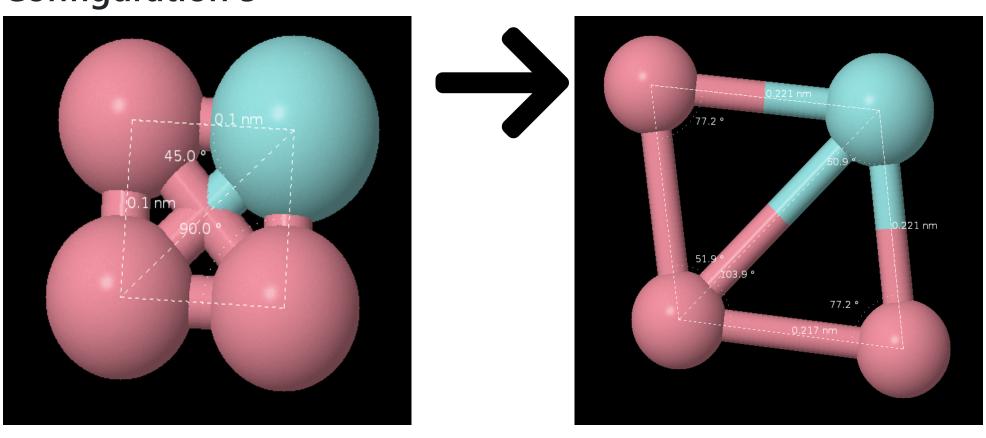
Energy: -212992.912984 eV





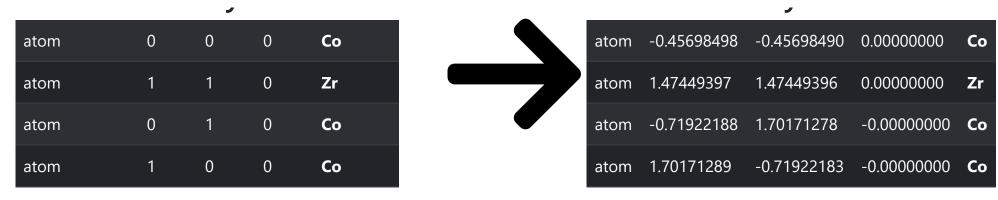
Energy: -212990.966254 eV

Configuration 5



Initial Geometry

Final Geometry



Energy: -212993.138496 eV

Configuration 6 Initial Geometry Final Geometry atom 2 Co atom 0.00000001 -0.20170932 2.21922135 **Co** -0.00000001 0.02548169 0.02548171 0 0 0 Zr atom atom -0.00000001 1.95700626 2 1.95700627 **Co** 2 Co atom

Energy: -212993.138417 eV

atom 0.00000001 2.21922138 -0.20170932 **Co**

0

atom

2

0

Co