**Readme file**

The MATLAB code would require users to enter the value of some parameter included

-the magnitude of voltage applied

-the magnitude of charge of the particle

-the magnitude of magnetic field applied

-the mass of the particle trapped

-the minimum axial distance for characteristic trap dimension

-the minimum radial distance for characteristic trap dimension

-the amplitude of modified cyclotron motion

-the amplitude of magnetron motion

-the amplitude of axial mode

All the parameter entered are in SI unit.

After all these parameters entered, the code will continue run to calculate some others parameter such as characteristic trap dimension, axial motion frequency, cyclotron frequency, modified cyclotron motion frequency, and magnetron motion frequency.

As a result, the animation of the motion of the charged particle in Penning trap is produced.