**EXPERIMENT-**

1. OBJECTIVES:
2. Develop a Simulink model to display Vehicle Speed of EV, which parameters are mentioned below:
   * 1. Mass=300
     2. Cd=0.5
     3. Frontal area=1.5
     4. µrr = 0.015 (Radial Ply Tyre)
     5. Tyre radius = 0.3
     6. Gear ratio = 1
     7. Road Gradient = 0
     8. Motor Torque = 50 Nm
3. Plot relation between Gear ratio (1 to 10, increase by 1) vs Vehicle Speed
4. Plot relation between Road Gradient (0 to 10, increase by 1) vs Vehicle Speed
5. SOFTWARE REQUIRED
   1. Simulink \_\_\_\_\_\_\_\_
6. PROCEDURE
   1. Open Matlab
   2. Open Simulink  
      Open new \*.slx file
   3. Develop a model
   4. Save in current directory
   5. Run the program
   6. Capture the plot
7. SIMULATION MODEL
8. OUTPUT

*Sample output*

*50 Nm then V=60 km/hr*