**Assignment no: Elec\_Engg\_10\_03\_01**

**Aim:** To design a system that controls the speed of a fan's rotation determined by the ambient temperature

Files included are:

1. **Elec\_Engg\_10\_03\_01.m** – contains the matlab code for running the simulation of a fan motor. The output is displayed after the start stop cycle of the motor in the form of a graph showing the speed of the motor vs the time the motor is run.

The file is run by typing Elec\_Engg\_10\_03\_01 in the matlab command window and then following the instructions.

1. **Var.mat** – contains the variables containing the password and Temperature -RPM map

**State flow Diagram**