**Mathematical Model**

Let S represent the events of the system.

S= {s,e,I,O,F,DD,NDD,Success,Failure}

Where I is the set of inputs

O is the set of outputs,

s is the initial state the set of functions,

e is the final state

F= {F1, F2, F3, F4}

F1= Capture\_image()

F2 = Pre-processing()

F3= Character\_recognization()

F4= E-challan\_generation()

I= {Video Stream, Configuration}

DD = Deterministic Data

NDD = Non Deterministic Data

Success (S1,S2}

S1= {The License plate Detected Successfully}

S2 = {License plate recognize Successfully}

S3= {E-challan Generated successfully}

Failure= {F1,F2}

F1={Failed to recognize characters}

F2-{Failed to produce output}