

The IF statement Goes as shown below

Case ONE:

If (K1 == ON)

{

State = TWO; // Proceed to the next state

}

else if (K1 == ON)

{

State = ONE; // do not proceed to the next state

}

else if (K3 == ON)

{

State = ONE; // do not proceed to next state

}

Case TWO:

If (K3 == ON)

{

State = THREE; // Proceed to the next state

}

else if (K1 == ON)

{

State = ONE; // Go back to state ONE

}

else if (K2 == ON)

{

State = ONE; // Go back to state ONE

}