

TABULATION:

Mode	S_1	S_2	Lamp
1	OFF	OFF	ON
2	OFF	ON	OFF
3	ON	OFF	OFF
4	ON	ON	ON

EXT-3

STAIRCASE WIRING

AIM:

Draw the staircase wiring diagram and develop it in proteus.

APPARATUS REQUIRED:

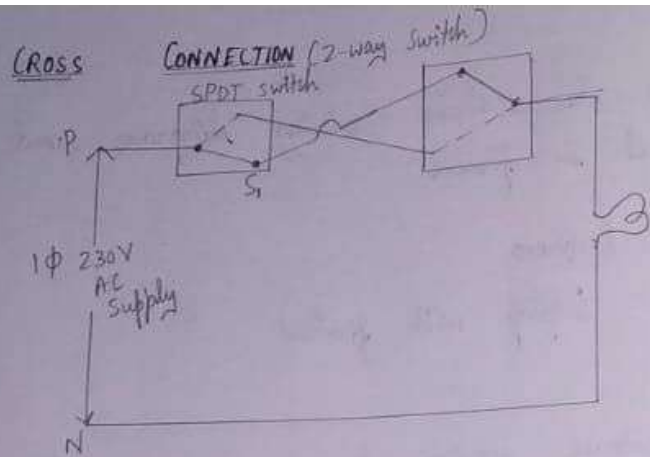
Laptop with proteus

THEORY:

Staircase wiring is a common multiply way switching or two way switching connection. It involves wiring for one light with two switches in this setup a single lamp is controlled by two switches located at different position. It allows the user to operate the load from separate position above or below the staircase from inside or outside of room or two way 2nd switch.

PROCEDURE:

1. Drag the required components from the proteus library.
2. Connect the components as per circuit diagram.
3. Run the simulation and check the lamp for different switch condition.



TABULATION:

Mode	S ₁	S ₂	Lamp
1	OFF	OFF	OFF
2	OFF	ON	ON
3	ON	OFF	ON
4	ON	ON	OFF

Components	Proteus	Specification
AC supply	Vsine	Amplitude : 230V Frequency = 50Hz
2-way s/w	SPDT	
LAMP	Lamp (Animated)	230V

RESULT:

Thus, the staircase wiring connection are developed in proteus and tested.

