Date: 24/3/21

Experiment no. 4

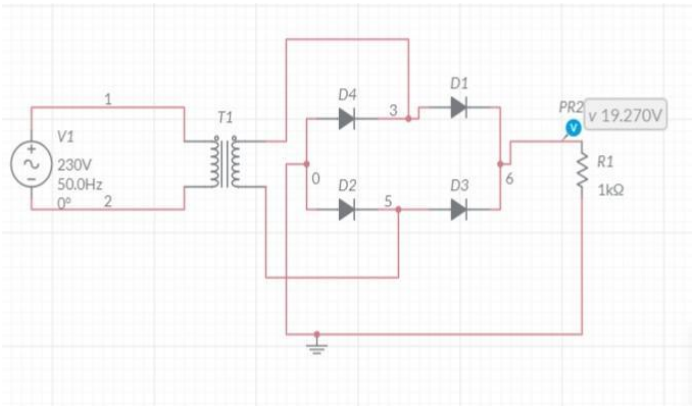
Objective: To study simulation of full wave rectifier using diodes

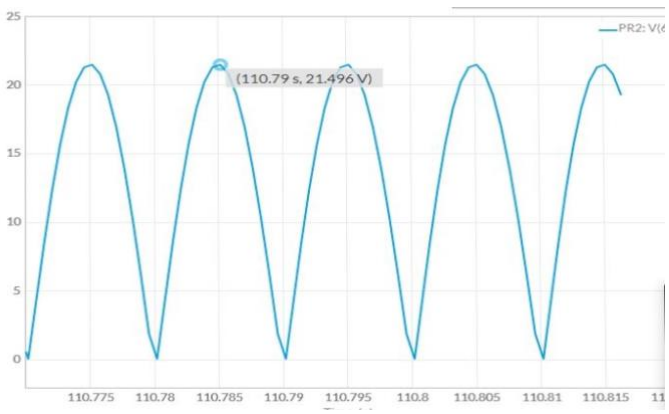
Software used: Multisim Live

Theory: Rectifier changes AC to DC and it is an essential part of power supply. The unique property of a diode, permitting the current to flow in one direction, is utilised in rectifiers.

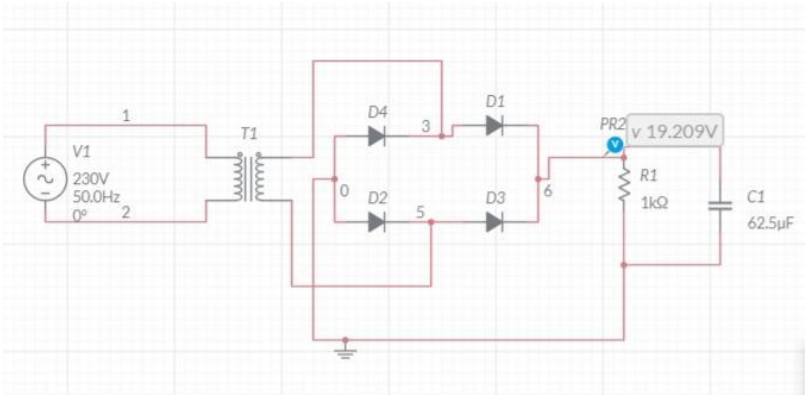
Circuit diagram:

1.Full wave rectifier without filter





2.Full wave rectifier with filter



Results & observations:

Observations:

1.Half wave rectifier without filter

Vp-p	Vp=Vp-p/2	Vrms=Vp/2^1/2
21.496V	10.748V	7.599V

2.Half wave rectifier with filter

Vp-p	Vp=Vp-p/2	Vrms=Vp/2^1/2
21.874V	10.937V	7.7336V

Result: The Graphs, Diagrams and observations show us the simulation of full wave rectifier using diodes

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