Diodes

A diode allows **current to flow in only one direction**. It's like a one-way valve for electric current.

If I change the polarity of a circuit , it will break down. But if I use a diode here , it will conduct electricity when it is in the forward bias. And in the reverse bias It will conduct no current eventually, the circuit is safe .

Diodes can make a ac wave to dc .the best way is to use a Full-Wave Bridge Rectifier .Lastly a capacitor will be needed to smooth the output of rectifier.