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element and the current flowing through it therefore the resistance  $r$  is viewed as a constant independent of the voltage and  
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volt 4 measure the voltage and current using voltmeter and ammeter respectively 5 increase the voltage of power supply by 1  
volt and repeat the above step for few times

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law  $v = ir$  where  $v$  is the voltage measured in volts across the object in question  $i$  is the current measured  
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and potential difference is  $v = ir$  or  $r = \frac{v}{i}$  where  $i$  is current  $v$  is the

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the current in a circuit is directly proportional to the applied voltage and inversely proportional to the circuit resistance ohm  
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