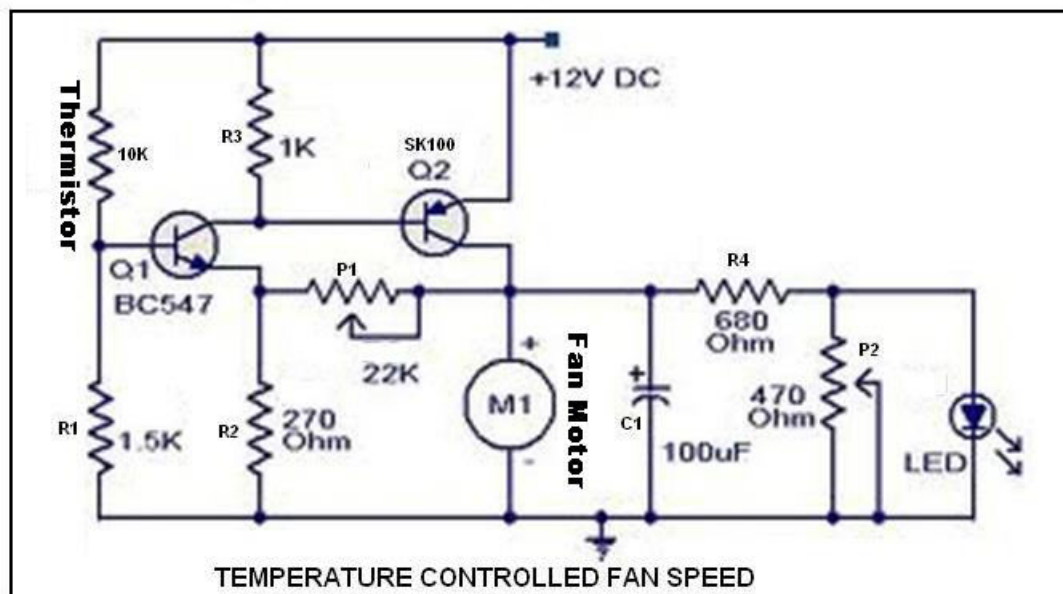


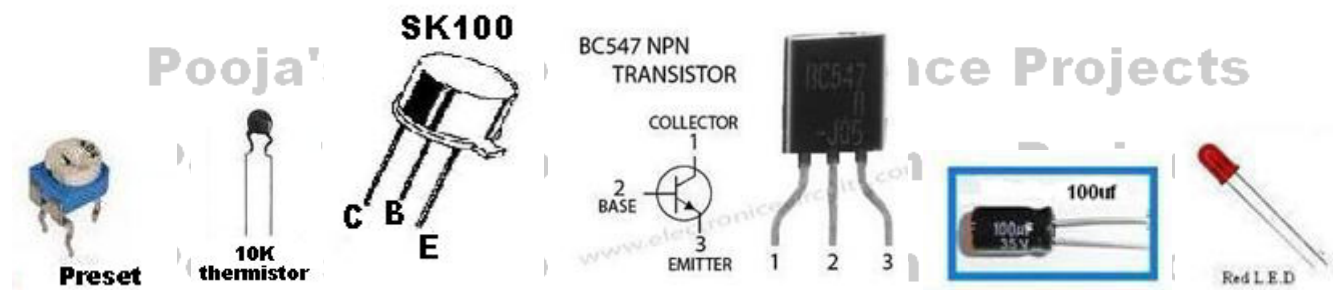
## Temperature Controlled Fan Speed



Here is a simple circuit based 2 transistor that can be used to control the 12 volt DC fan depending on the temperature. A thermistor is used to sense the temperature when the temperature increases the base current of Q1 (BC 547) increases which in turn decreases the collector voltage of the same transistor. Since the collector of Q1 is coupled to the base of Q2 (SK 100), decrease in collector voltage of Q1 forward biases the Q2 more and so. Do the speed of the motor. Also, the brightness of the LED will be proportional to the speed of the motor. The circuit operates with 9 – 12volts DC source.

Components: Temp Sens: 10K Thermistor, Q1-BC547, Q2-SK100, P1-22K Pot, P2-1k Pot, R1-1.5K, R2-270E, R3-1K, R4-680E, C1-100uf, M1-Mini fan Motor, Led, 9 volt Battery, Battery Snapper.

	Brown Black Red		Blue Grey Brown
	Brown Black Orange		Brown Green Red
	Red Violet Brown		



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