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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 is 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 Bla	ick Red	- 680 ohms	Blue	Grey B	srown
	Brown Blac	ck 0range √.		Brown	Green	Red FOJECTS
270 ohms	Red Viole	t Brown	l Leve	l Sci	ienc	e Projects
Preset	ooja' R IOK thermistor	SK100	BC547 NPN TRANSISTO COLLECTO 1 BASE BASE 3 EMITTER	R pr R 1 2		
	Bat	tery snapper	EUROFORCE 9volt Bat	C Ci	ienc ienc	e Projects e Projects