For LM35 (Temperature sensor)

If the value is 1024, then the output volt is $5000 \, \text{mV}$ if the value is 1, then the output volt is $\frac{5000}{1024} \, \text{mV}$ If the value is 51.2, the in the output volt is $\frac{5000}{1024} \, \text{mV}$ alue is $\frac{5000 \times 51.2}{1024}$

= 250 mv

We know,

10 mV will be generated for increase 1°C 1 mV " " $\frac{1^{\circ}}{10}$ C $\frac{1^{\circ}}{10}$ C

.. The temperature is 25°C

So the equations will be

Value = Analog (Ad)

milivolt = Value x 5000

1024

temperature = milivolt/10;

