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1BM18CS090

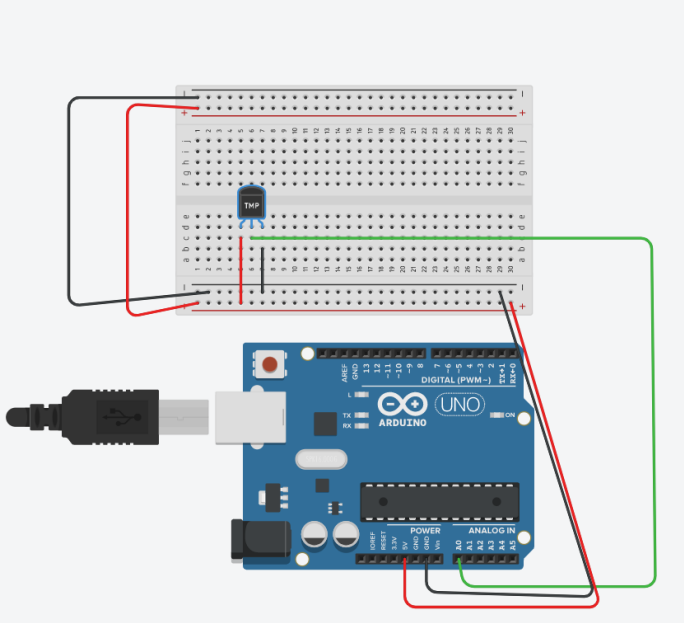
PROGRAM TITLE: TEMPERATURE SENSOR(LM35)

Aim: DEMONSTRATE AND MAKE YOUR OWN TEMPERATURE SENSOR BY ARDUINO AND LM35 SENSOR

Hardware Required:

- Arduino Board
- Breadboard
- LM35 Temperature Sensor

Circuit Diagram:



Write-Up:

Name: SAKSHI SRIVASTAVA Date 30/9/202

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Aim: Demonstrate and make your own temperature sensor by Arduino and LM35 sensor.

Hardware Required:-

→ Arduino board
→ Breadboard
→ LM35 Temperature Sensor

CODE:

```
float temp;
int tempPin = 0;

void setup()
{ Serial.begin(9600);
}
void loop()
{ temp = analogRead(tempPin);
  temp = temp * 0.48828125;
  Serial.println("TEMPERATURE = ");
  Serial.println(temp);
  Serial.println("*C");
  Serial.println();
  delay(1000);
}
```

CODE:

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float temp;
int tempPin = 0;

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{
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```

OUTPUT/OBSERVATION:

Temperature is being measured.