

Program no : 6

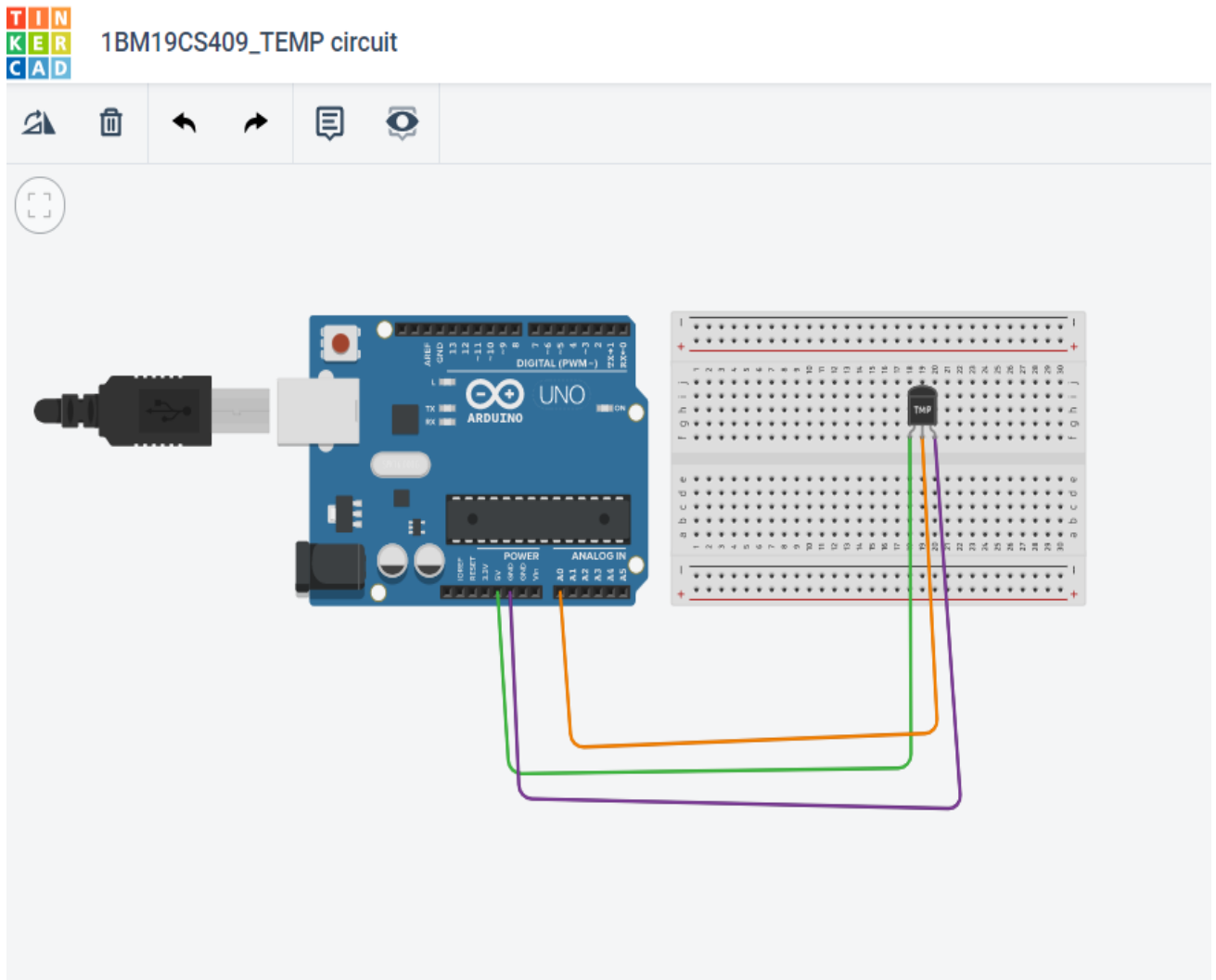
Program Title : Temperature sensor

Aim : To check the temperature in Celsius and fahrenheit.

Hardware Required

- Arduino Board
- Breadboard
- Wires
- Temperature Sensor

Circuit Diagram :



Code:

Sumalata
1BM19CS409

Program - 6
Temperature controller

```
int outputPin = 0;
void setup()
{
  Serial.begin(9600);
}

void loop()
{
  int rawVoltage = analogRead(outputPin);
  float mVVolts = (rawVoltage/1240.0)
    * 5000;
  float celsius = mVVolts/10;
  Serial.print(celsius);
  Serial.print(" celsius");
  Serial.print("((celsius*9)/5+32);");
  Serial.print(" in Fahrenheit");
  delay(1000);
}
```

Observation /Output :

