IOT LAB

Program no - 7

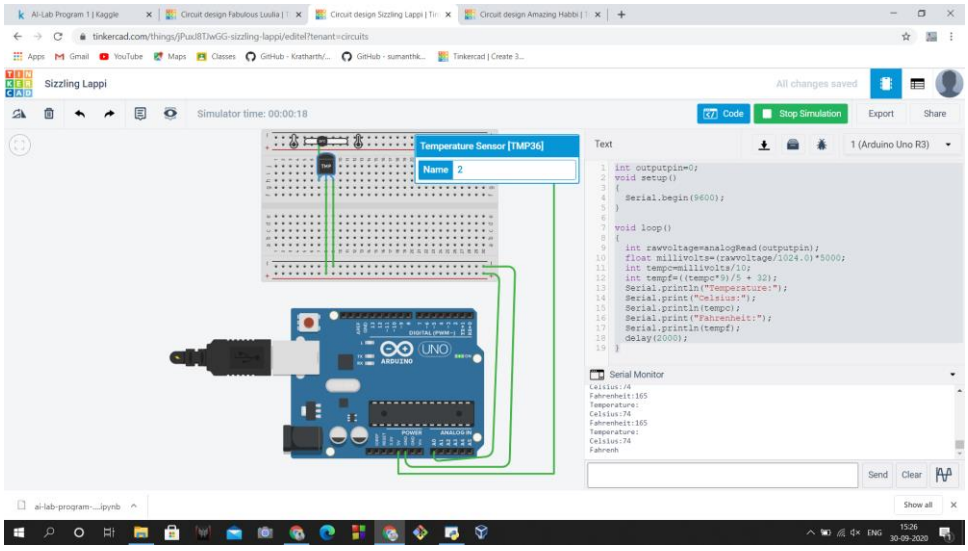
Program Title – TEMPERATURE SENSOR

AIM – Demonstrate the working of temperature sensor

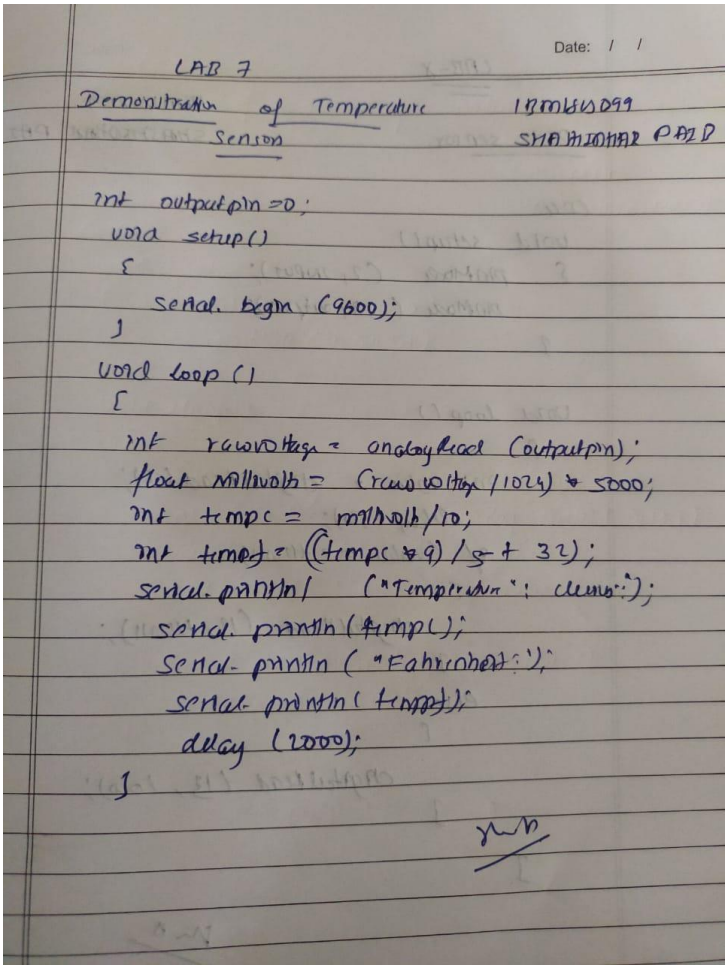
Hardware Required -

- Arduino Board
- Breadboard
- Wires
- Temperature sensor

Circuit Diagram -



Code-



LAB 7

Demonstration of Temperature Sensor

```
int outputpin=0;
void setup()
{
  Serial.begin(9600);
}
void loop()
{
  int rawvoltage = analogRead(outputpin);
  float millivolts = (rawvoltage/1024) * 5000;
  int tempc = millivolts/10;
  int tempf = ((tempc*9)/5 + 32);
  Serial.println("Temperature:");
  Serial.println(tempc);
  Serial.println("Fahrenheit:");
  Serial.println(tempf);
  delay(2000);
}
```

Observation /Output -

The working temperature sensor is observed.