Program no____7____

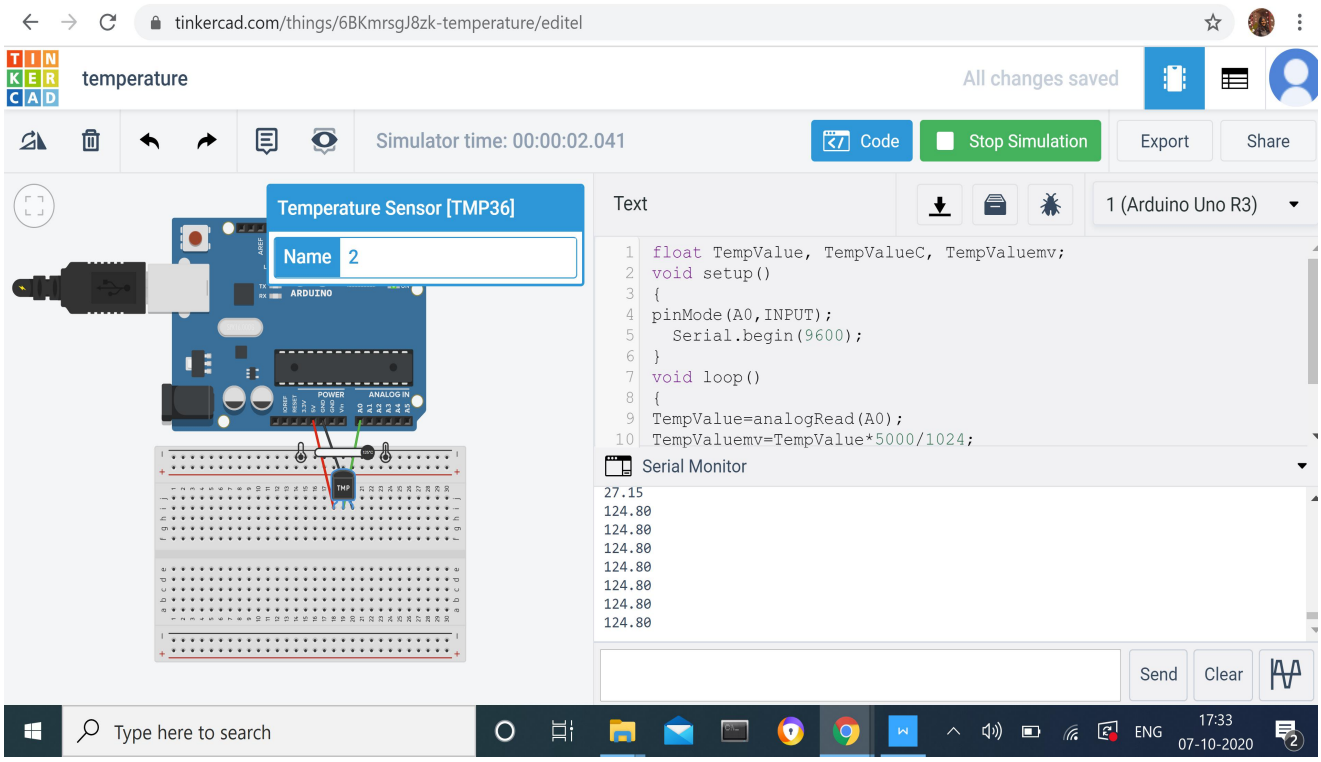
Program Title_____Temperature sensor_____

Aim: Converts degree in Celsius to Fahrenheit

Hardware Required

- Arduino Board
  Temperature sensor(TM36)

Circuit Diagram



CODE:

```
Name : Avashya K
USN : 1BM17CS034
Experiment 1 :→ Temperature Sensor.

float TempValue, TempvalueC, TempValuemV;
void setup()
{
pinMode (A0, INPUT);
    Serial.begin(9600);
}
void loop()
{
  TempValue = analogRead(A0);
 TempValuemv = TempValue * 5000/1024;
  TempValueC = (TempValuemV/10)+(-50);
Serial.println(TempValueC);
}
```

Observation /Output:

Converts degree in Celsius to Fahrenheit