# Code for tempurature sensor in raspberry:-

import machine

import utime

# Function to read temperature from the built-in temperature sensor

def read\_temperature():

sensor\_temp = machine.ADC(4)

conversion\_factor = 3.3 / (65535)

reading = sensor\_temp.read\_u16() \* conversion\_factor

temperature = 27 - (reading - 0.706) / 0.001721

return temperature

# Main loop to continuously read and display temperature

while True:

temp\_celsius = read\_temperature()

temp\_fahrenheit = temp\_celsius \* 9 / 5 + 32

print("Temperature: {:.2f}°C, {:.2f}°F".format(temp\_celsius, temp\_fahrenheit))

# Wait for 1 second before the next reading

utime.sleep(1)