Ex. No : 11   **Write a program on Raspberry Pi to upload temperature and humidity data to cloud.**

Program:

```
from firebase import firebase

import RPi.GPIO as GPIO

import dht11

import time


url="https://temp-7bca8-default-rtdb.firebaseio.com/Weather"

firebase = firebase.FirebaseApplication(url)


GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

instance = dht11.DHT11(pin=2)


while True:

    result = instance.read()

    if result.is_valid():

        print("Temp: %d " % result.temperature + ' ' +"Humid:%d %%"% result.humidity)

        temp = firebase.put("Weather","Temp", result.temperature)

        humid = firebase.put("Weather", "Humid", result.humidity)

    time.sleep(1)
```

Sample Output:

>>> %Run temp.py

Temp: 35 Humid:48%

Temp: 35 Humid:48%

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Temp: 35 Humid:48%

Upload temperature and humidity data to Firebase Cloud.