

## Assignment -2

### Python Program

Assignment Date	30 September 2022
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#### QUESTION -1 :

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

#### PROGRAM :

```
import serial
import time
import pyttsx3
import speech_recognition as sr

def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        r.pause_threshold = 0.5
        audio = r.listen(source)
    try:
        print("Recognizing... wait a minute")
        query = r.recognize_google(audio, language='en-in')
        print(f"User said: {query}\n")
```

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except Exception as e:

    # print(e)

    print("Say that again please... icannot recognizing")

    query = "none"

return query

def speak(audio):

    engine.say(audio)

    engine.runAndWait()

engine = pyttsx3.init('sapi5')

voices=engine.getProperty('voices')

engine.setProperty("voice",voices[0].id)

engine.setProperty("rate",140)

engine.setProperty("volume",1000)

if \_\_name\_\_ == "\_\_main\_\_":

    ard = serial.Serial('com10' ,9600)

    time.sleep(2)

    var = 'pt'

    query=takeCommand().lower()

    if 'tell me temperature' in query:

        var ='a'

        c=var.encode()

        speak("yeah..")

    if var == 'a':

        ard.write(c)

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```
time.sleep(1)

iny =(ard.readline())

iny=iny.decode()

iny=str(iny)

print(iny)

speak(str(iny)+"degree centigrade is the temperature!!")

if var == 'b':

    ard.write(c)
```

**OUTPUT :**

[illegible]