

```

# Assignment-2
import serial
import time
import pytttsx3
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")

    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 = pytttsx3.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)
time.sleep(1)
iny =(ard.readline())
iny=inny.decode()
iny=str(iny)
print(iny)
speak(str(iny)+"degree centigrade is the temperature!!")

if var == 'b':
    ard.write(c)
```