SRI ESHWAR COLLEGE OF ENGINEERING

Coimbatore

**ASSIGNMENT II**

# TEAM MATES :

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**ASSIGNMENT TOPIC :**

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.

# CODE:

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")

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) 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)



