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)
```

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30 engine.setProperty("voice",voices[0].id)
31 engine.setProperty("rate",140) 32 engine.setProperty("volume",1000) query=takeCommand().lower() c=var.encode()
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