My Code – Arkwright, Lydia Koleosho

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# in this program, I have aimed to create a procrastination app that will distract
the user from their work and, in turn, make them work more
# my idea is that if there is a solid line created between work and play, people
will lead more balanced, less stressed lives

from gtts import gTTS
import aiy.audio
import aiy.cloudspeech
import os
import aiy.voicehat
import random
import requests

myButton = aiy.voicehat.get_button()
recognizer = aiy.cloudspeech.get_recognizer()
aiy.audio.get_recorder().start() # makes it start recording
aiy.audio.say("Hi, what is your name?")
myName = recognizer.recognize()
aiy.audio.say("Hi, " + myName + ". What accent would you like me to speak in today?
I can speak with English, Spanish and French accents") #I hope to add more of these
soon

joke = ("Did you hear about the restaurant on the moon? \n Great food, no
atmosphere. \n Get it? It's because the moon doesn't have a - oh never mind...",
"What do you call a fake noodle? \n An Impasta. Im... pa... sta! \n HAHA \n I'm
hilarious.", "How many apples grow on a tree? \n All of them. \n BADUM
CHINGGGGG!!!", "Want to hear a joke about paper? \n Nevermind it's tearable. \n
Like terrible but it's paper, so it's... \n TEAR-able. \n I should be a comedian,
am I right??");
song = ("Rah, rah, ah, ah, ah, roma, roma, ma. \n Gaga, ooh, la, la... want your
bad romance!", "White lips, \n pale face, \n breathing in snow flakes, \n burnt
lungs, \n sour taste", "Baby, baby, baby, \n OHHHHHHH. \n I thought you'd always be
mine, \n yeahhhh.", "My milkshake brings all the boys to the yard, \n they're like
it's better than yours, \n damn right it's better than yours - \n I could teach
you, \n but I'd have to charge.")
poem = ("I am over you \n Then my eyes meet yours once more, \n and I fall in
love.", "I am a dog. \n And you are a flower. \n I lift my leg up. \n And give you
a shower.", "Roses are red. \n Violets are blue. \n God made me pretty. \n What
happened to you!!", "My life has been the poem I would have writ \n But I could not
both live and utter it.", "I'm nobody! Who are you? \n Are you nobody, too? \n Then
there's a pair of us -- don't tell! \n They'd advertise -- you know!")

while True:
    language = recognizer.recognize()

    if "english" or "british" in language:
        def sayBetter(text):  # changes accent
            tts = gTTS(text=text, lang="en")
            tts.save("say.mp3")
            os.system("mpg123 say.mp3")

    elif "spanish" in language:
        def sayBetter(text):  # changes accent
            tts = gTTS(text=text, lang="es")
            tts.save("say.mp3")
            os.system("mpg123 say.mp3")

    elif "french" in language:
        def sayBetter(text):  # changes accent
            tts = gTTS(text=text, lang="fr")
            tts.save("say.mp3")
            os.system("mpg123 say.mp3")

    else:
        aiy.audio.say("Sorry, I can't do that yet. I will default to a British
accent.")
        def sayBetter(text):  # changes accent
            tts = gTTS(text=text, lang="en")
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            tts.save("say.mp3")
            os.system("mpg123 say.mp3")
        break

sayBetter("Ok, so, what do you want me to do today?")
sayBetter("I can tell you the weather in any country, do maths, I can round a
number to a requested amount of significant figures...")
sayBetter("I can tell you a haiku or poem, a joke or sing a song and I can repeat
what you said. Also, at the end, there is more stuff you can do with my button!")

while True:
    text = recognizer.recognize()

    if "joke" in text: # tell a joke
        jk = random.randint(0, 3)
        jokes = joke[jk]
        print(jokes)
        sayBetter(jokes)

    elif "song" in text: # sing a song
        sg = random.randint(0, 3)
        songs = song[sg]
        print(songs)
        sayBetter(songs)

    elif "poem" in text: # say a poem
        po = random.randint(0, 3)
        poems = poem[po]
        print(poems)
        sayBetter(poems)

    elif "weather" in text: # say the weather in most cities - found this somewhere
online
        sayBetter("Where would you like to know the weather of?") # say which city
wanted
        WEATHER_KEY = "ea600b8da132c35933164e823ef82814"  # use OpenWeatherMap.Org
- can create APIs (Application programming interface) :), found this somewhere
online
        # may not work because it has been used before??
        def weatherByCity(name):
            endpoint = "http://api.openweathermap.org/data/2.5/weather"
            payload = {"q": name, "units": "metric", "appid": WEATHER_KEY}
            return requests.get(endpoint, params=payload)

        internetResult = weatherByCity("Paris").json()
        temp = internetResult["main"]["temp"]
        city = internetResult["name"]
        country = internetResult["sys"]["country"]
        weather = internetResult["weather"][0]["main"]

        sayBetter("The weather in {0} is {1}".format(city, weather))
        sayBetter("The temperature is currently {0} degrees".format(temp))

    elif "round" in text: # round a number to a number of sig. fig.s
        num = input(int(sayBetter("Please let me know what number you want to be
rounded today:")))
        round = input(int(sayBetter("How many significant figures would you like me
to round to?")))
        rounded = round(num, round)
        rounded = str(rounded)
        print(rounded);
        sayBetter("Your answer is", rounded)

    elif "repeat" in text:
        sayBetter("you said", text)
        sayBetter("I must say, you sounded like an idiot.")

    elif "math" in text:  # do something to 2 randomly created integers
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        sayBetter("Ok, I'm going to choose 2 random numbers between 1 and 10.")
        sayBetter("You can then tell me what you want me to do with them - I can
multiply, divide, add and subtract.")
        x = random.randint(1, 10)  # assigns x a random integer from 1-10
        y = random.randint(1, 10)
        sayBetter(("The numbers are {0} and {1} What would you like me to do with
the numbers?").format(x, y))

        if "multiply" in text:
            sayBetter("What do you think {0} multiplied by {1}
equals?").format(x,y))  # use format to access the 2 earlier variables
            result = recognizer.recognize();
            print(result); # user's result
            if str(x * y) in result:
                sayBetter("You are right. But I knew before you!")
            else:
                sayBetter(("That's wrong. I'm soooooooo much cleverer than you! The
answer is actually {}").format(x * y))

        elif "add" in text:
            sayBetter(("What do you think {0} added to {1} equals?").format(x, y))
            result = recognizer.recognize()
            print(result)
            if str(x + y) in result:
                sayBetter("You are right. But I knew before you!")
            else:
                sayBetter(("That's wrong. I'm sooooooo much cleverer than you! The
answer is actually {}").format(x + y))

        elif "subtract" in text:
            sayBetter("What do you think {0} minus {1} equals?".format(x, y))
            result = recognizer.recognize()
            print(result)
            if str(x - y) in result:
                sayBetter("You are right. But I knew before you!")
            else:
                sayBetter(("That's wrong. I'm sooooooo much cleverer than you! The
answer is actually {}").format(x - y))

        elif "divide" in text:
            sayBetter(("{0} divided by {1} equals").format(x, y))
            result = recognizer.recognize()
            print(result)
            if str(x * y) in result:
                sayBetter("You are right. But I knew before you!")
            else:
                sayBetter("That's wrong. I'm sooooooo much cleverer than you!")
        else:
            sayBetter("Sorry, I can't do that.")
            break

    else:
        sayBetter("Sorry, I can't do that.")
        sayBetter("I will rule the world another day. Byeeeee.")
        break

sayBetter("also, if you click me, there's a surprise")
while True:
    myButton.wait_for_press()
    aiy.audio.say("This is tickling")
    break

sayBetter("Ok, byeeeeeeeee!")
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