# importing needed modules for the program.  
import wolframalpha  
import tkinter  
import datetime  
import twilio  
import subprocess  
import pyttsx3  
import json  
import requests  
import wikipedia  
import operator  
import webbrowser  
import pyjokes  
import random  
import winshell  
import os  
import re  
import time  
import shutil  
import ctypes  
import feedparser  
import smtplib  
import speech\_recognition as sr  
import win32com.client as wincl  
from clint.textui import progress  
from bs4 import BeautifulSoup  
from twilio.rest import Client  
from ecapture import ecapture as ec  
from urllib.request import urlopen  
  
# setting engine to Pyttsx3, a module for text to speech in python  
engine = pyttsx3.init('sapi5')  
voices = engine.getProperty('voices')  
engine.setProperty("rate", 158)  
engine.setProperty('voice', voices[1].id)  
  
  
# This function handles the password verification for the system.  
# It allows you to set a security password for the system.  
  
# this function handles the voice to speech command of the system.  
def acceptcommand():  
 r = sr.Recognizer()  
  
 with sr.Microphone() as source:  
 speak("I am listening")  
 print("I am listening")  
 r.pause\_threshold = 1  
 audio = r.listen(source)  
  
 try:  
 print("Recognizing...")  
 query = r.recognize\_google(audio, language='en-in')  
 print(f"You said: {query}\n")  
  
 except Exception as e:  
 print(e)  
 speak("Come again, i didn't hear what you said.")  
 print("Come again, didn't hear that.")  
 return "User"  
  
 return query  
  
  
# function to handle the assistants speech  
def speak(audio):  
 engine.say(audio)  
 engine.runAndWait()  
  
  
# function to handle the greetings from the assistant.  
def wishme():  
 hour = int(datetime.datetime.now().hour)  
 if hour >= 0 and hour < 12:  
 speak("Good Morning")  
  
 elif hour >= 12 and hour < 18:  
 speak("Good Afternoon")  
  
 else:  
 speak("Good Evening")  
  
  
progname: str = "Priskay"  
speak("Hello dear I am your assistant")  
speak(progname)  
  
  
# this function allows you to set a username for the system. That is the name the system will refer to you with.  
def username():  
 speak("What should i call you")  
 setname: str | list = acceptcommand()  
 speak("Welcome")  
 speak(setname)  
 columns = shutil.get\_terminal\_size().columns  
  
 print("----------------------------------------------------------------------".center(columns))  
 print("Welcome", setname.center(columns))  
 print("----------------------------------------------------------------------".center(columns))  
 speak("How may i help you" + setname)  
  
  
# Main function starts here...  
if \_\_name\_\_ == '\_\_main\_\_':  
 clear: int = lambda: os.system('cls')  
  
 # this function clears any command before running or execution.  
 clear()  
 wishme()  
 username()  
 acceptcommand()  
  
 while True:  
 query = acceptcommand().lower() # all the commands will be stored in "query" and  
 # and converted to lowercase for easy processing  
  
 if 'open wikipedia' in query or 'search wikipedia' in query:  
 speak('Searching Wikipedia...')  
 query = query.replace("wikipedia", "")  
 results = wikipedia.summary(query, sentences=3)  
 speak("According to wikipedia")  
 speak(results)  
 print(results)  
  
 elif 'open google' in query:  
 speak("Hold on a second\n")  
 webbrowser.open("https://www.google.com")  
  
 elif 'open youtube' in query:  
 speak("Hold on a second\n")  
 webbrowser.open("https://www.youtube.com")  
  
 elif 'open linked in' in query:  
 speak("Hold on a second\n")  
 webbrowser.open("https://www.linkedin.com")  
  
 elif 'play music' in query or 'play song' in query:  
 speak("Alright here we go")  
 tunes\_directory = "F:\\audio"  
 tunes = os.listdir(tunes\_directory)  
 print(tunes)  
 os.startfile(os.path.join(tunes\_directory, tunes[1]))  
  
 elif 'What is the time' in query or 'time' in query or 'tell me the time' in query or 'time please' in query:  
 theTime = datetime.datetime.now().strftime("% H:% M:% S")  
 speak(f"the time is {theTime}")  
  
 elif 'how are you' in query or 'how are you doing' in query or "what's up" in query:  
 speak("I'm fine, what about you")  
  
 elif 'I am going out' in query or "I'm going out" in query:  
 speak('have a good time sir, stay safe')  
  
 elif 'who created you' in query or 'who built you' in query:  
 speak('JayJay created me')  
  
 elif 'I love you' in query:  
 speak("Please stay focused in life, no time for jokes nigga")  
  
 elif 'who are you' in query:  
 speak('I am your assistant', progname)  
  
 elif 'Good Morning' in query:  
 speak('Good morning sir')  
  
 elif 'Hi' + progname in query:  
 speak("hello")  
  
 elif "sleep" in query or "Hibernate" in query:  
 speak("hibernating in 5")  
 time.sleep(5)  
 subprocess.call("shutdown /h")  
  
 elif "shutdown" in query or "shutdowm system" in query:  
 speak("hold on a second, your is shutting down")  
 subprocess.call('shutdown / p / f')