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import pyttsx3 #pip install pyttsx3
import speech_recognition as sr #pip install speechRecognition
import datetime
import wikipedia #pip install wikipedia
import webbrowser # To take information or to operate browser
import os # To open or search any software in our system
#import smtplib # To send email
# This is used for selecting the voice for using in our program
engine = pyttsx3.init('sapi5')
# SAPI5 (speech application programming interface) is an API developed by microsoft to allow the use of
speech recognition.
voices = engine.getProperty('voices')
# To print the name of the voice
# print(voices[0].id)
engine.setProperty('voice', voices[0].id)
# This function is used by the assistant to speak.
# This function gives the voice to my assistant
def speak(audio):
  engine.say(audio)
  engine.runAndWait()
```

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# This function is used to tell the assistant about the time so that he can wish me.
def wishMe():
  hour = int(datetime.datetime.now().hour)
  if hour>=0 and hour<12:
    speak("Good Morning!,Sir")
  elif hour>=12 and hour<18:
    speak("Good Afternoon!,Sir")
  else:
    speak("Good Evening!,Sir")
  speak("I am your Assistant Sir. Please tell me how may I help you")
# This function take the command by the user to recognise it and work on it.
def takeCommand():
  #It takes microphone input from the user and returns string output
  r = sr.Recognizer()
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with sr.Microphone() as source:
    print("Listening...")
    r.pause_threshold = 1
    audio = r.listen(source)
  try:
    print("Recognizing...")
    query = r.recognize_google(audio, language='en-in')
    print(f"User said: {query}\n")
# If the assistant does not recognise the command given by the user then it will run exception.
  except Exception as e:
    # print(e)
    print("Say that again please...")
    return "None"
  return query
# It is used for sending the email.
"""def sendEmail(to, content):
  server = smtplib.SMTP('smtp.gmail.com', 587)
  server.ehlo()
  server.starttls()
  server.login('youremail@gmail.com', 'your-password')
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server.sendmail('youremail@gmail.com', to, content)
  server.close()"""
# Here main program starts.
if __name__ == "__main__":
  wishMe()
  while True:
  # if 1:
    query = takeCommand().lower()
    # Logic for executing tasks based on query
    if 'wikipedia' in query:
      speak('Searching in Wikipedia...')
      query = query.replace("wikipedia", "")
      results = wikipedia.summary(query, sentences=10)
      speak("According to Wikipedia")
      print(results)
      speak(results)
    elif 'open youtube' in query:
      webbrowser.open("youtube.com")
      speak("opening youtube")
    elif 'open google' in query:
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webbrowser.open("google.com")
 speak("opening Google")
elif 'open stackoverflow' in query:
 webbrowser.open("stackoverflow.com")
  speak("opening Stackoverflow")
# To quit our program here we use exit function by giving quit, bye or exit command.
elif 'quit' in query or 'bye' in query or 'exit' in query:
  speak("Quitting Sir. Thanks for your time")
  exit()
# By giving open code command we can open our coding platform where i usually code.
elif "open code" in query:
 codePath= "C:\\Users\\This PC\\AppData\\Local\\Programs\\Microsoft VS Code\\Code.exe"
 os.startfile(codePath)
  speak("opening path")
# By giving time command we can ask about the time by the assistant.
elif 'the time' in query:
  strTime = datetime.datetime.now().strftime("%H:%M:%S")
  print(strTime)
 speak(f"Sir, the time is {strTime}")
```

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elif "open chrome" in query:
  cpath= "C:\\Program Files (x86)\\Google\\Chrome\\Application\\chrome.exe"
  os.startfile(cpath)
  speak("opening chrome")
elif 'how are you' in query:
  speak("I am fine, Thank you")
  speak("How are you, Sir")
elif 'fine' in query or "good" in query:
  speak("It's good to know that your fine")
elif "what's your name" in query or "What is your name" in query:
  speak("My friends call me")
  speak("Tushar's assistant")
  print("My friends call me Tushar's assistant")
elif "who made you" in query or "who created you" in query:
  print("I have been created by Tushar.")
  speak("I have been created by Tushar.")
elif "who are you" in query:
  speak("I am your virtual assistant created by Tushar")
```

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elif "open powerpoint" in query:

Path= "C:\\Program Files\\Microsoft Office\\root\\Office16\\POWERPNT.EXE"

os.startfile(Path)

speak("opening powerpoint")

elif "open word" in query:

wPath= "C:\\Program Files\\Microsoft Office\\root\\Office16\\WINWORD.EXE"

os.startfile(wPath)

speak("opening Word")
```

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"""elif 'play music' in query:
  music_dir = 'D:\\Non Critical\\songs\\Favorite Songs2'
  songs = os.listdir(music_dir)
  print(songs)
  os.startfile(os.path.join(music_dir, songs[0]))
elif 'send email ' in query:
  try:
    speak("What should I say?")
    content = takeCommand()
    to = "harryyourEmail@gmail.com"
    sendEmail(to, content)
    speak("Email has been sent!")
  except Exception as e:
    print(e)
    speak("Sorry my friend harry bhai. I am not able to send this email")
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