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1  import pyttsx3
2  import speech_recognition as sr
3  import datetime
4  import os
5  import cv2
6  import random
7  import webbrowser
8  from requests import get
9  import wikipedia
10 import pywhatkit as kit
11 import smtplib
12 import sys
13 import pyjokes
14 import pyautogui
15 import requests
16 from email.mime.multipart import MIMEMultipart
17 from email.mime.base import MIMEBase
18 from email import encoders
19 from email.mime.text import MIMEText
20 # Initialize text-to-speech engine
21 engine = pyttsx3.init('sapi5')
22 voices = engine.getProperty('voices')
23 engine.setProperty('voice', voices[len(voices)-1].id)
24
25 # Text-to-speech function
26 def speak(audio):
27     engine.say(audio)
28     print(audio)
29     engine.runAndWait()
30
31 # Convert speech to text
32 def takecomand():
33     r = sr.Recognizer()
34     with sr.Microphone() as source:
35         print("Listening...")
36         r.pause_threshold = 1
37         audio = r.listen(source, timeout=5, phrase_time_limit=8)
38
39     try:
40         print("Recognizing...")
```

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41     query = r.recognize_google(audio, language='en_in')
42     print(f"User said: {query}")
43
44     except Exception as e:
45         speak("Sorry, I couldn't hear that. Please say that again.")
46         return "none"
47     return query
48
49     # Function to wish the user
50     def wish():
51         hour = int(datetime.datetime.now().hour)
52
53         tt = datetime.datetime.now().strftime("%I:%M %p")
54
55         if hour >= 0 and hour <= 12:
56             speak(f"Good morning, its {tt}")
57         elif hour >= 12 and hour <= 18:
58             speak(f"Good afternoon, its {tt}")
59         else:
60             speak(f"Good evening, its {tt}")
61
62         speak("I am Jarvis, sir. How can I assist you today?")
63
64     # def sendEmail(to, content):
65     #     server = smtplib.SMTP('smtp.gmail.com', 587)
66     #     server.ehlo()
67     #     server.starttls()
68     #     server.login('rohitsinghcontactus@gmail.com', 'nbum dtgl pfyl vewi')
69     #     server.sendmail('rohitsinghcontactus@gmail.com', to, content)
70     #     server.close()
71
72     def news():
73         main_url = 'http://newsapi.org/v2/top-headlines?sources=techcrunch&apikey=14611042a83b4cca8073a57422e5cab4'
74         main_page = requests.get(main_url).json()
75         articles = main_page["articles"]
76         head = []
77         day = ["first", "second", "third", "fourth", "fifth", "sixth", "seventh", "eighth", "ninth", "tenth"]
78         for ar in articles:
79             head.append(ar["title"])
80         for i in range(len(day)):
81             speak(f"today's {day[i]} news is : {head[i]}")
82
```

```
83 def time():
84     time = int(datetime.datetime.now().time)
85
86
87 if __name__ == "__main__":
88     wish()
89
90     while True:
91
92         query = takecomand().lower()
93
94         # Logic for tasks
95         if "open notepad" in query:
96             try:
97                 npath = "C:\\Windows\\System32\\notepad.exe"
98                 os.startfile(npath)
99                 speak("Opening Notepad.")
100             except Exception as e:
101                 speak("Sorry, I couldn't open Notepad.")
102                 print(f"Error: {e}")
103
104         elif "open powerpoint" in query:
105             npath = "C:\\Program Files\\Microsoft Office\\root\\Office16\\POWERPNT.EXE"
106             os.startfile(npath)
107             speak("Opening Powerpoint")
108
109         elif "open command prompt" in query:
110             os.system("start cmd")
111
112         elif "open camera" in query:
113             cap = cv2.VideoCapture(0)
114             while True:
115                 ret, img = cap.read()
116                 cv2.imshow('webcam', img)
117                 k = cv2.waitKey(58)
118                 if k==27:
119                     break;
120             cap.release()
121             cv2.destroyAllWindows()
122
123
124         elif "ip address" in query:
```

```
125         ip = get('https://api.ipify.org').text
126         speak(f"your ip address is {ip}")
127
128
129     elif "wikipedia" in query:
130         speak("searching wikipedia...")
131         query = query.replace("wikipedia", "")
132         results = wikipedia.summary(query, sentences = 2)
133         speak("according to wikipedia")
134         speak(results)
135         print(results)
136
137
138
139     elif "open youtube" in query:
140         webbrowser.open("www.youtube.com")
141
142     elif "open facebook" in query:
143         webbrowser.open("www.facebook.com")
144
145     elif "open stackoverflow" in query:
146         webbrowser.open("www.stackoverflow.com")
147
148     elif "open google" in query:
149         speak("sir, what should i search on google")
150         cm = takecomand().lower()
151         webbrowser.open(f"{cm}")
152         #open google and search with command
153
154     elif "send message" in query:
155
156         phone_numbers = ["+918777043134", "+919163862769", "+916299025927"]
157         message = "This is a testing message"
158         for number in phone_numbers:
159             kit.sendwhatmsg(number, message, 0, 2)
160
161         #send message on whatsapp using pywhatkit Library
162
163     elif "play music " in query:
164         speak("sir, which song should i search in youtube")
165         kit.playonyt(takecomand().lower())
166
```

```
167     # elif"send email " in query:
168     #     try:
169     #         speak("what should i say ?")
170     #         content = takecomand().lower()
171     #         to = "paramanikshubhankar302@gmail.com"
172     #         sendEmail(to,content)
173     #         speak("email has been sent to sanku")
174
175     #     except Exception as e:
176     #         print(e)
177     #         speak("sorry sir, i am not able to sent this mail to sanku")
178
179     elif"thanks" in query:
180         speak("thanks for using me sir, have a great day.")
181         sys.exit()
182
183     elif"close notepad" in query:
184         speak("okay sir, closing notepad")
185         os.system("taskkill/f/im notepad.exe")
186
187     elif"tell me a joke" in query:
188         joke = pyjokes.get_joke()
189         speak(joke)
190
191     elif"shutdown the system" in query:
192         os.system("shutdown /s /t 5")
193
194     elif"switch the window" in query:
195         pyautogui.keyDown("alt")
196         pyautogui.press("tab")
197         time.sleep(1)
198         pyautogui.keyUp("alt")
199
200     elif"tell me news" in query:
201         speak("please wait sir , fetaching the latest news")
202         news()
203
204     elif"email to friend" in query:
205
206         speak("sir what should i say")
207         query = takecomand().lower()
208         if"send a file" in query:
```

```
209     email = 'rohitsinghcontactus@gmail.com'
210     password = 'nbum dtgl pfyl vewi'
211     send_to_email = 'paramanikshubhankar302@gmail.com'
212     speak("okay sir, what is the subject for this email")
213     query = takecomand().lower()
214     subject = query
215     speak("and sir, what is the message for this email")
216     query2 = takecomand().lower()
217     message = query2
218     speak("sir please enter the correct path of the file into the shell")
219     file_location = input("please enter the path here")
220
221     speak("please wait,i am sending email now")
222
223     msg = MIMEMultipart()
224     msg['from'] = email
225     msg['to'] = send_to_email
226     msg['subject'] = subject
227
228     msg.attach(MIMEText(message, 'plain'))
229
230     filename = os.path.basename(file_location)
231     attachment = open(file_location,"rb")
232     part = MIMEBase('application','octet-stream')
233     part.set_payload(attachment.read())
234     encoders.encode_base64(part)
235     part.add_header('content-disposition',"attachment; filename = %s" %filename)
236
237     msg.attach(part)
238
239     server = smtplib.SMTP('smtp.gmail.com',587)
240     server.starttls()
241     server.login(email, password)
242     text = msg.as_string()
243     server.sendmail(email, send_to_email,text)
244     server.quit()
245     speak("email has been sent to friend")
246
247 else:
248     email = 'rohitsinghcontactus@gmail.com'
249     password = 'nbum dtgl pfyl vewi'
250     send_to_email = 'paramanikshubhankar302@gmail.com'
```

```
251         message = query
252
253         server = smtplib.SMTP('smtp.gmail.com',587)
254         server.starttls()
255         server.login(email, password)
256
257         server.sendmail(email, send_to_email,message)
258         server.quit()
259         speak("email has been sent to friend")
260
261
262     speak("sir, do you have any other work")
```