```
 1 import speech_recognition as sr
 2 import pyttsx3
 3 import datetime
 4 import wikipedia
 5 import webbrowser
 6 import time
 7 import subprocess
 8 from ecapture import ecapture as ec
 9 import wolframalpha
10 import requests
11 import pyjokes
12 import pywhatkit
13 import json
14 import os
15 import smtplib
16
17 print('Loading your AI personal assistant - Rennie')
18
19 engine = pyttsx3.init('sapi5')
20 voices = engine.getProperty('voices')
21 engine.setProperty('voice', voices[1].id)
22
23 def speak(text):
24     engine.say(text)
25     engine.runAndWait()
26
27 def wishMe():
28
29     hour = datetime.datetime.now().hour
30
31     if hour >= 0 and hour < 12:
32
33         speak("Hello,Good Morning")
34         print("Hello,Good Morning")
35
36     elif hour >= 12 and hour < 18:
37
38         speak("Hello,Good Afternoon")
39         print("Hello,Good Afternoon")
40     else:
41         speak("Hello,Good Evening")
42         print("Hello,Good Evening")
43
44 def takeCommand():
```

```
45      r = sr.Recognizer()
46      with sr.Microphone() as source:
47          print("Listening...")
48          audio = r.listen(source)
49
50          try:
51              statement = r.recognize_google(audio,
    language='en-in')
52              print(f"user said:{statement}\n")
53
54          except Exception as e:
55              speak("Pardon me, please say that again")
56              return "None"
57          return statement
58
59  speak("Loading your AI personal assistant Rennie")
60
61  wishMe()
62
63  if __name__ == '__main__':
64
65      while True:
66
67          speak("Tell me how can I help you now?")
68          statement = takeCommand().lower()
69          if statement == 0:
70              continue
71
72          if "good bye" in statement or "ok bye" in
    statement or "stop" in statement:
73              speak('your personal assistant G-one is
    shutting down,Good bye')
74              print('your personal assistant G-one is
    shutting down,Good bye')
75              break
76
77          if 'wikipedia' in statement:
78              speak('Searching Wikipedia...')
79              statement = statement.replace("wikipedia"
    , "")
80              results = wikipedia.summary(statement,
    sentences=3)
81              speak("According to Wikipedia")
82              print(results)
```

```
 83              speak(results)
 84
 85          elif 'play' in statement:
 86              song = statement.replace('play', '')
 87              speak('playing ' + song)
 88              pywhatkit.playonyt(song)
 89
 90          elif 'open youtube' in statement:
 91              webbrowser.open_new_tab("https://www.
    youtube.com")
 92              speak("youtube is open now")
 93              time.sleep(5)
 94
 95          elif 'open google' in statement:
 96              webbrowser.open_new_tab("https://www.
    google.com")
 97              speak("Google chrome is open now")
 98              time.sleep(5)
 99
100          elif 'open gmail' in statement:
101              webbrowser.open_new_tab("gmail.com")
102              speak("Google Mail open now")
103              time.sleep(5)
104
105              # Send Email
106          elif 'email' in statement:
107              speak('What is the subject?')
108              time.sleep(3)
109              subject = takeCommand()
110              speak('What should I say?')
111              message = takeCommand()
112              content = 'Subject: {}\n\n{}'.format(
    subject, message)
113
114              # init gmail SMTP
115              mail = smtplib.SMTP('smtp.gmail.com',
    587)
116
117              # identify to server
118              mail.ehlo()
119
120              # encrypt session
121              mail.starttls()
122
```

```
123             # login
124             mail.login('preetishr27@gmail.com', '
    september@2709')
125 
126             # send message
127             mail.sendmail('preetish27@gmail.com', '
    bhawnashr10@gmail.com', content)
128 
129             # end mail connection
130             mail.close()
131 
132             speak('Email sent.')
133 
134         elif "weather" in statement:
135             api_key = "
    8ef61edcf1c576d65d836254e11ea420"
136             base_url = "https://api.openweathermap.
    org/data/2.5/weather?"
137             speak("whats the city name")
138             city_name = takeCommand()
139             complete_url = base_url + "app id=" +
    api_key + "&q=" + city_name
140             response = requests.get(complete_url)
141             x = response.json()
142             if x["cod"] != "404":
143                 y = x["main"]
144                 current_temperature = y["temp"]
145                 current_humidity = y["humidity"]
146                 z = x["weather"]
147                 weather_description = z[0]["
    description"]
148                 speak(" Temperature in kelvin unit
    is " +
149                       str(current_temperature) +
150                       "\n humidity in percentage is
     " +
151                       str(current_humidity) +
152                       "\n description  " +
153                       str(weather_description))
154                 print(" Temperature in kelvin unit
     = " +
155                       str(current_temperature) +
156                       "\n humidity (in percentage
    ) = " +
```

```
157                         str(current_humidity) +
158                         "\n description = " +
159                         str(weather_description))
160
161             else:
162                 speak(" City Not Found ")
163
164         elif 'time' in statement:
165             strTime = datetime.datetime.now().
    strftime("%H:%M:%S")
166             speak(f"the time is {strTime}")
167
168         elif 'who are you' in statement or 'what can
     you do' in statement:
169             speak('I am G-one version 1 point 0 your
     personal assistant. I am programmed to minor tasks
    like'
170                   'opening youtube,google chrome,
    gmail and stackoverflow ,predict time,take a photo,
    search wikipedia,predict weather'
171                   'in different cities , get top
    headline news from times of india and you can ask me
     computational or geographical questions too!')
172
173         elif "who made you" in statement or "who
    created you" in statement or "who discovered you" in
     statement:
174             speak("I was built by Preeti")
175             print("I was built by Preeti")
176
177         elif "open stackoverflow" in statement:
178             webbrowser.open_new_tab("https://
    stackoverflow.com/login")
179             speak("Here is stackoverflow")
180
181         elif 'news' in statement:
182             news = webbrowser.open_new_tab("https://
    timesofindia.indiatimes.com/home/headlines")
183             speak('Here are some headlines from the
    Times of India,Happy reading')
184             time.sleep(6)
185
186         elif "camera" in statement or "take a photo"
     in statement:
```

```
187             ec.capture(0, "robot camera", "img.jpg")
188 
189         elif 'search' in statement:
190             statement = statement.replace("search",
    "")
191             webbrowser.open_new_tab(statement)
192             time.sleep(5)
193 
194         elif 'ask' in statement:
195             speak('I can answer to computational and
     geographical questions and what question do you
    want to ask now')
196             question = takeCommand()
197             app_id = "78Y44A-22HEY67V63"
198             client = wolframalpha.Client('78Y44A-
    22HEY67V63')
199             res = client.query(question)
200             answer = next(res.results).text
201             speak(answer)
202             print(answer)
203 
204         elif 'joke' in statement:
205             speak(pyjokes.get_joke())
206 
207         elif "log off" in statement or "sign out" in
     statement:
208             speak("Ok , your pc will log off in 10
    sec make sure you exit from all applications")
209             subprocess.call(["shutdown", "/l"])
210 
211 time.sleep(3)
212 
```