```python
1  import speech_recognition as sr
2  import pyttsx3
3  import pywhatkit
4  import datetime
5  import wikipedia
6  import pyjokes
7  import sys
8  import webbrowser
9  from datetime import date
10 engine=pyttsx3.init()
11 engine.setProperty("rate", 150)
12 voices = engine.getProperty("voices")
13 engine.setProperty('voice', voices [1].id)
14 recognizer=sr.Recognizer()
15 def engine_talk(text):
16   engine.say(text)
17   engine.runAndWait()
18 def run_alexa():
19
20   with sr.Microphone() as source:
21   recognizer.adjust_for_ambient_noise(source,duration=
   1)
22   print('\n')
23   print("Start Speaking!!")
24   engine_talk('listening.. ')
25   recordedaudio=recognizer.listen(source)
26   try:
27   command=recognizer.recognize_google(recordedaudio,
   language='en-in')
28   command = command.lower()
29   if 'alexa' in command :
30   command = command.replace('alexa', '')
31   print('you said'+command)
32   else :
33
34   print('you said : '+command)
35
36   if 'hello' in command :
37   print('hello how can i helpp you ??')
38   engine_talk('hello, how can i help you ??')
39
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40  elif 'who are you' in command :
41  print('I am mini alexa a k a your virtual assistant
    master')
42  engine_talk('I am mini alexa a k a your virtual
    assistant master. how can i help you ??')
43
44  elif 'can you do' in command :
45  print('''i can play songs on youtube , tell you a
    joke, search on wikipedia, tell date and time,find
    your location, locate area on map,
46  open different websites like instagram, youtube,
    gmail, git hub, stack overflow and searches on google
    .How may i help you ??''')
47  engine_talk('''i can play songs on youtube , tell
    you a joke, search on wikipedia, tell date and time,
    find your location, locate area on map,
48  open different websites like insta gram, youtube,
    gmail, git hub, stack overflow and searches on google
    . How may i help you ??''')
49
50  elif 'play' in command:
51  song = command.replace('play', '')
52  print('Playing' +song)
53  engine_talk('Playing' +song)
54  pywhatkit.playonyt(song)
55  elif 'date and time' in command :
56  today = date.today()
57  time = datetime.datetime.now().strftime('%I:%M %p')
58  # Textual month, day and year
59  d2 = today.strftime("%B %d, %Y")
60  print("Today's Date is ", d2, 'Current time is',
    time)
61  engine_talk('Today is : '+ d2)
62  engine_talk('and current time is '+ time)
63
64  elif 'time and date' in command :
65  today = date.today()
66  time = datetime.datetime.now().strftime('%I:%M %p')
67  # Textual month, day and year
68  d2 = today.strftime("%B %d, %Y")
69  print("Today's Date is ", d2, 'Current time is',
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69 time)
70  engine_talk( 'Current time is '+ time)
71  engine_talk('and Today is : '+ d2)
72
73
74  elif 'time' in command:
75  time = datetime.datetime.now().strftime('%I:%M %p')
76  print('The current time is' +time)
77  engine_talk('The current time is')
78  engine_talk(time)
79
80  elif 'date' in command:
81  today = date.today()
82  print("Today's date:", today)
83  # Textual month, day and year
84  d2 = today.strftime("%B %d, %Y")
85  print("Today's Date is ", d2)
86  engine_talk('The todays date is')
87  engine_talk(d2)
88
89  elif 'tell me about' in command:
90  name = command.replace('tell me about' , '')
91  info = wikipedia.summary(name, 1)
92  print(info)
93  engine_talk(info)
94
95  elif 'wikipedia' in command:
96  name = command.replace('wikipedia' , '')
97  info = wikipedia.summary(name, 1)
98  print(info)
99  engine_talk(info)
100  elif 'what is' in command:
101  name = command.replace('what is ' , '')
102  info = wikipedia.summary(name, 1)
103  print(info)
104  engine_talk(info)
105
106  elif 'who is ' in command:
107  name = command.replace('who is' , '')
108  info = wikipedia.summary(name, 1)
109  print(info)
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110   engine_talk(info)
111
112   elif 'what is ' in command :
113   search = 'https://www.google.com/search?q='+command
114   print(' Here is what i found on the internet..')
115   engine_talk('searching... Here is what i found on
      the internet..')
116   webbrowser.open(search)
117
118   elif 'joke' in command:
119   _joke = pyjokes.get_joke()
120   print(_joke)
121   engine_talk(_joke)
122
123   elif 'search' in command :
124   search = 'https://www.google.com/search?q='+command
125   engine_talk('searching... ')
126   webbrowser.open(search)
127
128   elif "my location" in command:
129   url = "https://www.google.com/maps/search/Where+am+
      I+?/"
130   webbrowser.get().open(url)
131   engine_talk("You must be somewhere near here, as
      per Google maps")
132   elif 'locate ' in command :
133   engine_talk('locating ...')
134   loc = command.replace('locate', '')
135   if 'on map' in loc :
136   loc= loc.replace('on map',' ')
137   url = 'https://google.nl/maps/place/'+loc+'/&amp;'
138   webbrowser.get().open(url)
139   print('Here is the location of '+loc)
140   engine_talk('Here is the location of '+loc)
141
142   elif 'on map' in command :
143   engine_talk('locating ...')
144   loc = command.split(" ")
145   print(loc[1])
146   url = 'https://google.nl/maps/place/'+loc[1] +'/&
      amp;'
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147  webbrowser.get().open(url)
148  print('Here is the location of '+loc[1])
149  engine_talk('Here is the location of '+loc[1])
150
151
152  elif 'location of' in command :
153  engine_talk('locating ...')
154  loc = command.replace('find location of', '')
155  url = 'https://google.nl/maps/place/'+loc+'/&amp;'
156  webbrowser.get().open(url)
157  print('Here is the location of '+loc)
158  engine_talk('Here is the location of '+loc)
159
160
161  elif 'where is ' in command :
162  engine_talk('locating ...')
163  loc = command.replace('where is', '')
164  url = 'https://google.nl/maps/place/'+loc+'/&amp;'
165  webbrowser.get().open(url)
166  print('Here is the location of '+loc)
167  engine_talk('Here is the location of '+loc)
168
169  elif 'bootcamps' in command :
170  search = 'http://tathastu.twowaits.in/index.html#
     courses'
171  engine_talk('opening boot camps')
172  webbrowser.open(search)
173
174  elif 'boot camps' in command :
175  search = 'http://tathastu.twowaits.in/index.html#
     courses'
176  engine_talk('opening boot camps')
177  webbrowser.open(search)
178
179  elif 'python bootcamp' in command :
180  search = 'http://tathastu.twowaits.in/
     kickstart_python.html'
181  engine_talk('showing pythonboot camp')
182  webbrowser.open(search)
183
184  elif 'data science bootcamp' in command :
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185    search = 'http://tathastu.twowaits.in/
       kickstart_data_science.html'
186    engine_talk('showing data science and ml bootcamp')
187    webbrowser.open(search)
188
189    elif 'open google' in command :
190    print('opening google ...')
191    engine_talk('opening google..')
192    webbrowser.open_new('https://www.google.co.in/')
193
194    elif 'gmail' in command :
195    print('opening gmail ...')
196    engine_talk('opening gmail..')
197    webbrowser.open_new('https://mail.google.com/')
198
199    elif 'open youtube' in command :
200    print('opening you tube ...')
201    engine_talk('opening you tube..')
202    webbrowser.open_new('https://www.youtube.com/')
203    elif 'open instagram' in command :
204    print('opening instagram ...')
205    engine_talk('opening insta gram...')
206    webbrowser.open_new('https://www.instagram.com/')
207
208    elif 'open stack overflow' in command :
209    print('opening stackoverflow ...')
210    engine_talk('opening stack overflow...')
211    webbrowser.open_new('https://stackoverflow.com/')
212
213    elif 'open github' in command :
214    print('opening git hub ...')
215    engine_talk('opening git hub...')
216    webbrowser.open_new('https://github.com/')
217
218    elif 'bye' in command:
219    print('good bye, have a nice day !!')
220    engine_talk('good bye, have a nice day !!')
221    sys.exit()
222
223    elif 'thank you' in command :
224    print("your welcome")
```

```
225    engine_talk('your welcome')
226
227    elif 'stop' in command:
228    print('good bye, have a nice day !!')
229    engine_talk('good bye, have a nice day !!')
230    sys.exit()
231
232    elif 'tata' in command:
233    print('good bye, have a nice day !!')
234    engine_talk('good bye, have a nice day !!')
235    sys.exit()
236
237    else:
238    print(' Here is what i found on the internet..')
239    engine_talk('Here is what i found on the internet
       ..')
240    search = 'https://www.google.com/search?q='+command
241    webbrowser.open(search)
242    except Exception as ex:
243    print(ex)
244
245  print('Clearing background noise...Please wait')
246  engine_talk('Clearing background noise...Please wait
     ')
247  print('\n')
248  print("hello, i am mini alexa how can i help you
       ??")
249  engine_talk ("hello i am mini alexa how can i help
       you ")
250  while True:
251    run_alexa()
252
```