



# Mini Desktop Assistant

A Project Report By:

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# Project objective



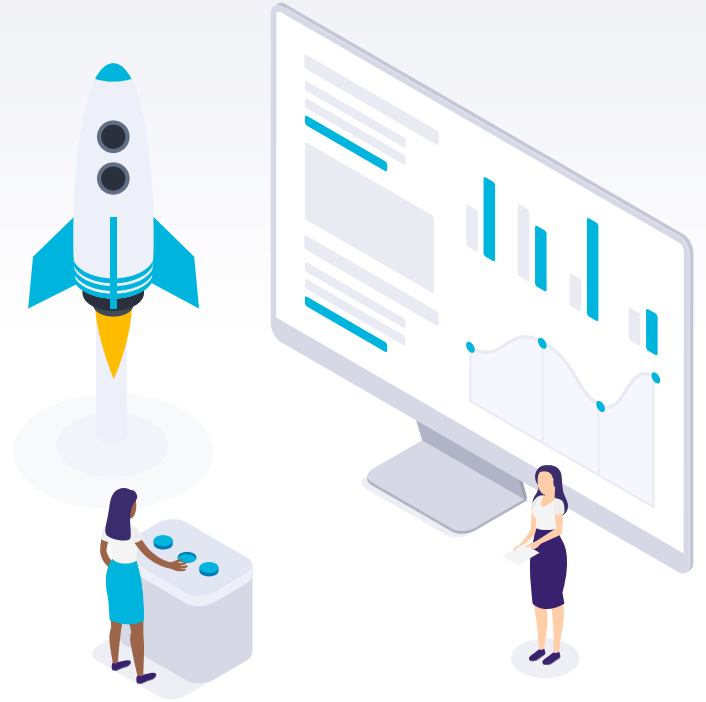
# 1.1 Project Objective

- ▶ The objective of an intelligent virtual assistant is to answer questions that users may have.
- ▶ The main objective of this project is to perform tasks such as playing music and opening application, send/schedule emails and WhatsApp texts over voice command.
- ▶ Response are formulated using text-to-speech featured.



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# Hardware & software requirement



# Client side Requirement

## 2.1 Hardware Requirement

- ✓ Pentium-pro processor or later.
- ✓ RAM 512MB or more.

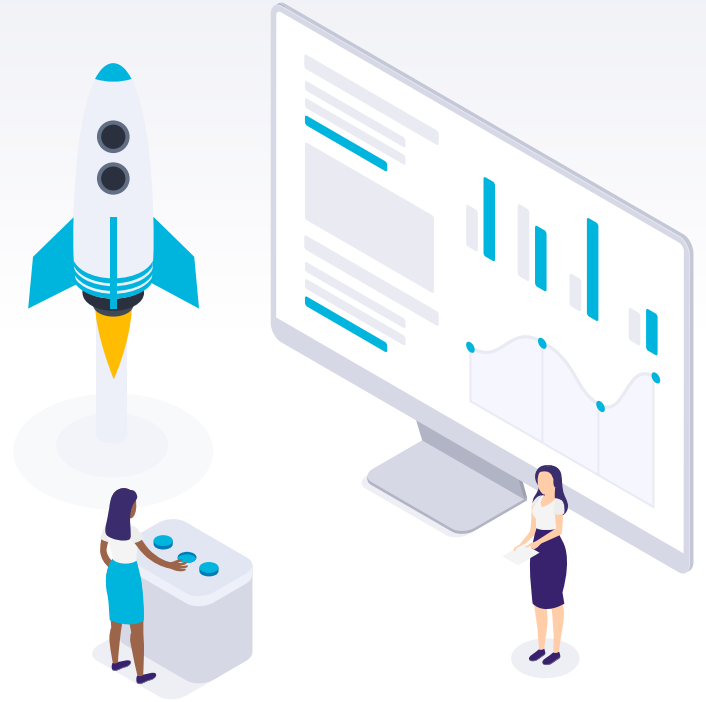
## 2.2 Software Requirement

- ✓ Windows 7(32-bit) or above.
- ✓ Chrome Driver •

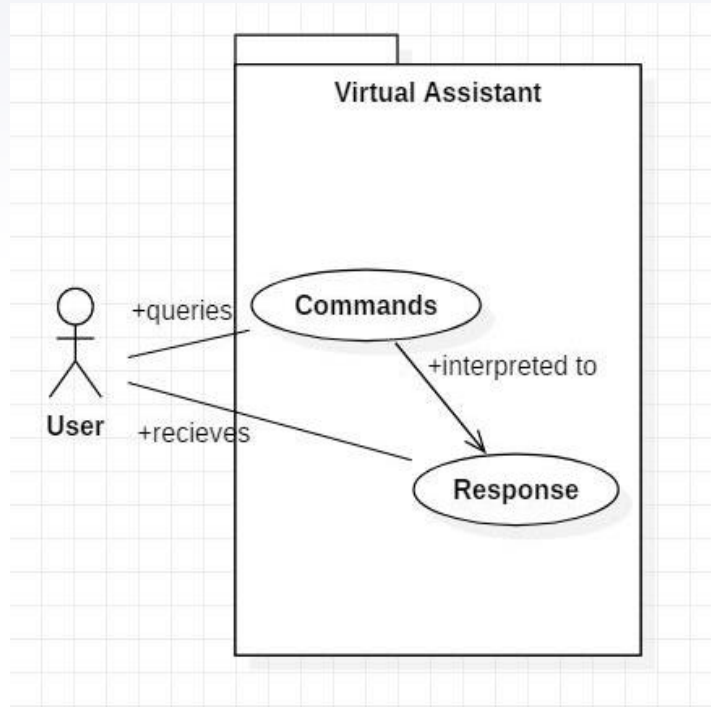


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## Data diagram

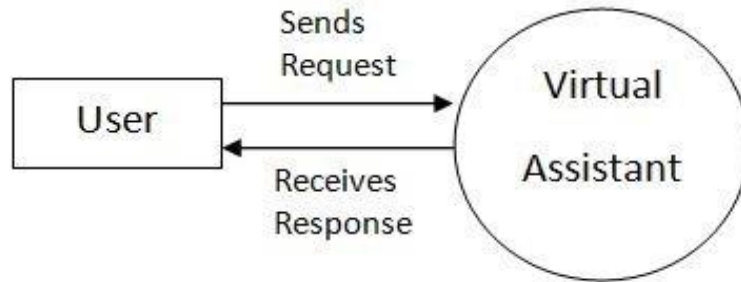


## 3.1 Use case Diagram



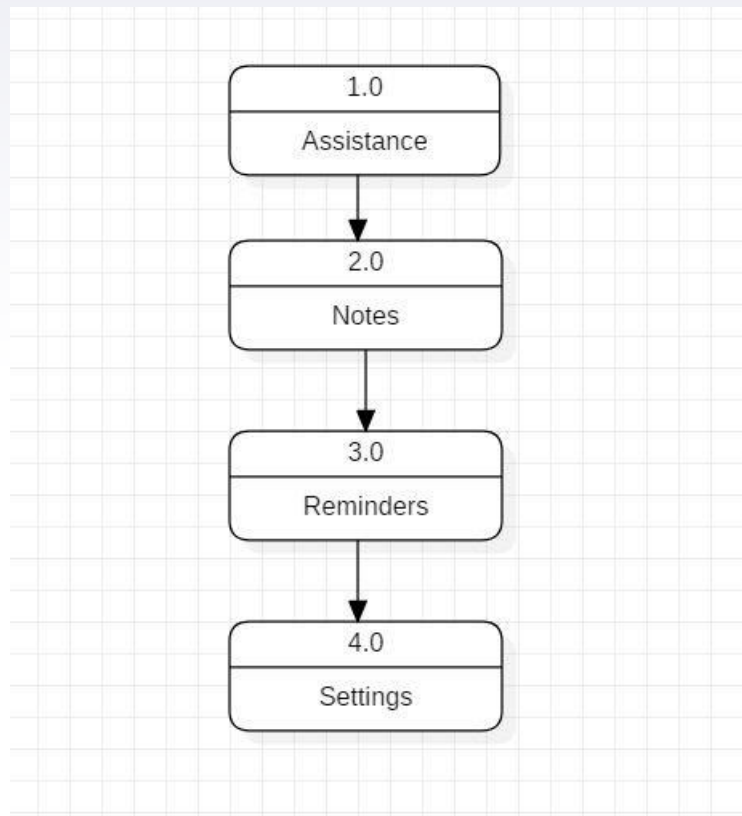
## 3.2 DFD Diagram

- ▶ DFD Level 0 (Context Level Diagram)

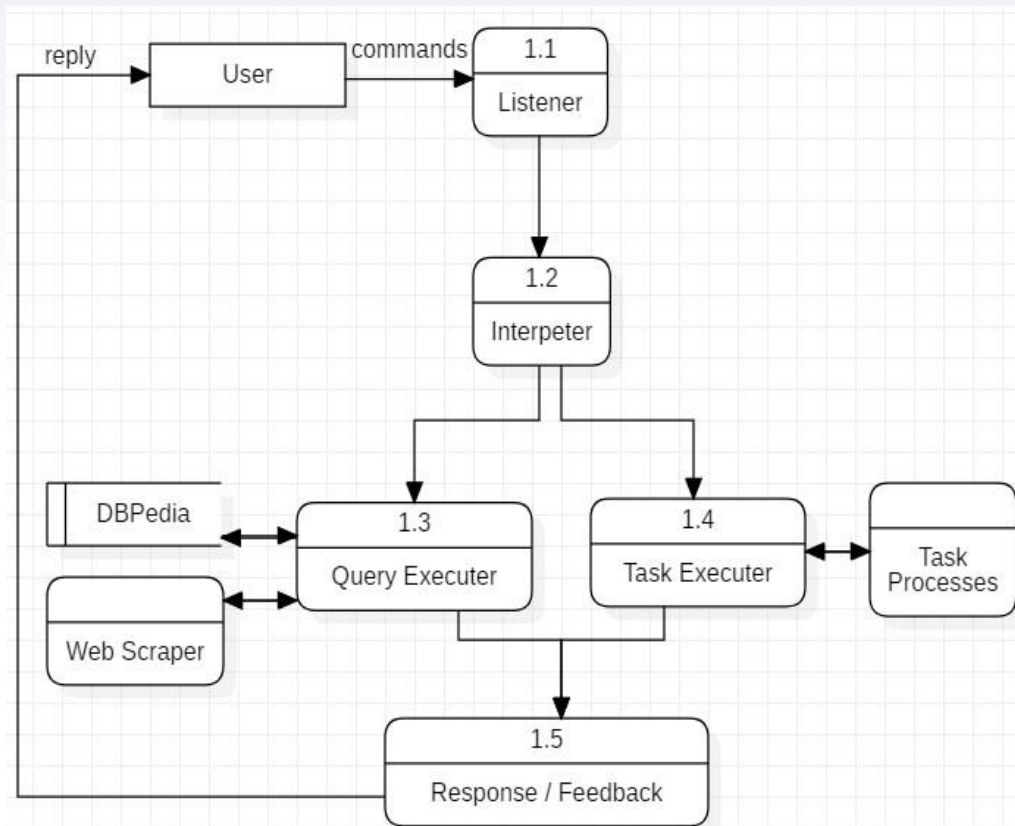




## DFD Level 1

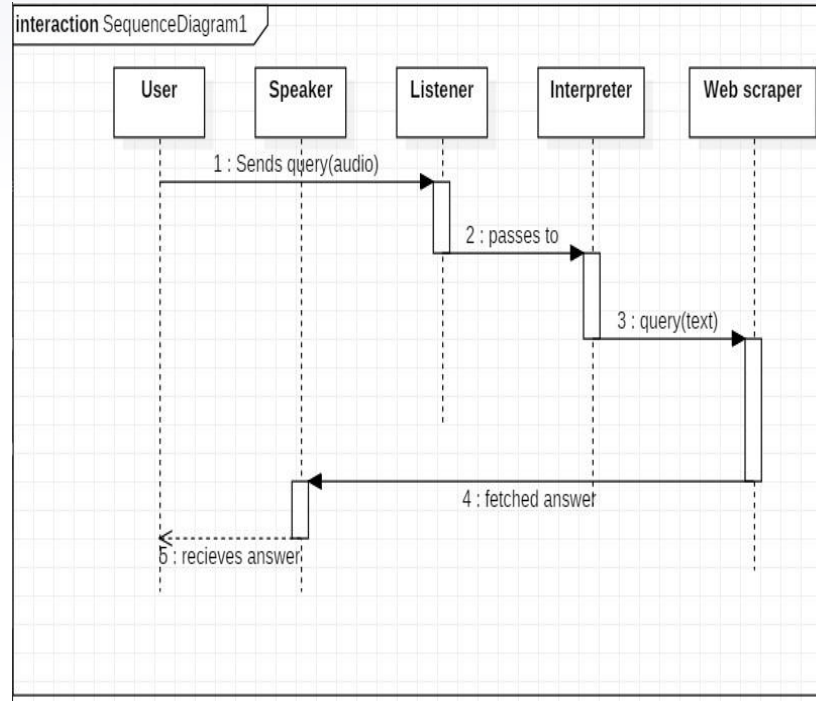


## DFD Level 2

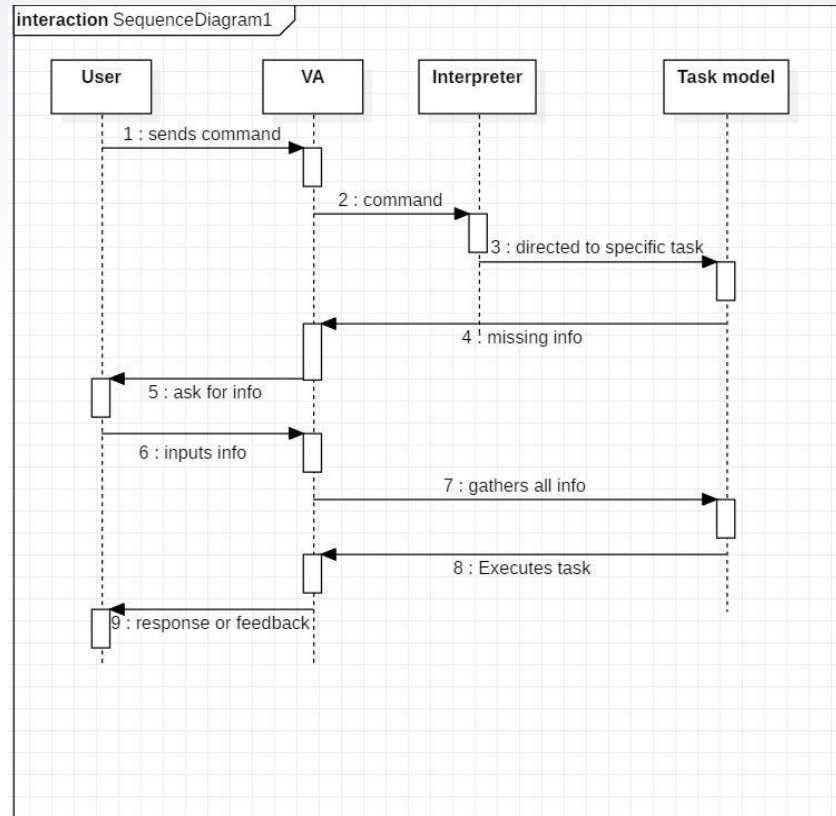


# 3.3 Sequence Diagram

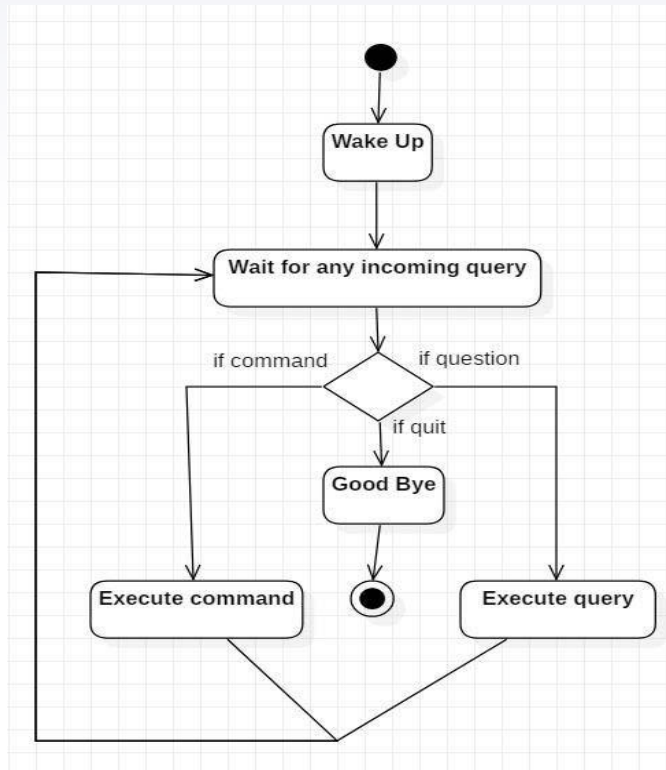
## 3.3.1 Sequence diagram for Query-Response



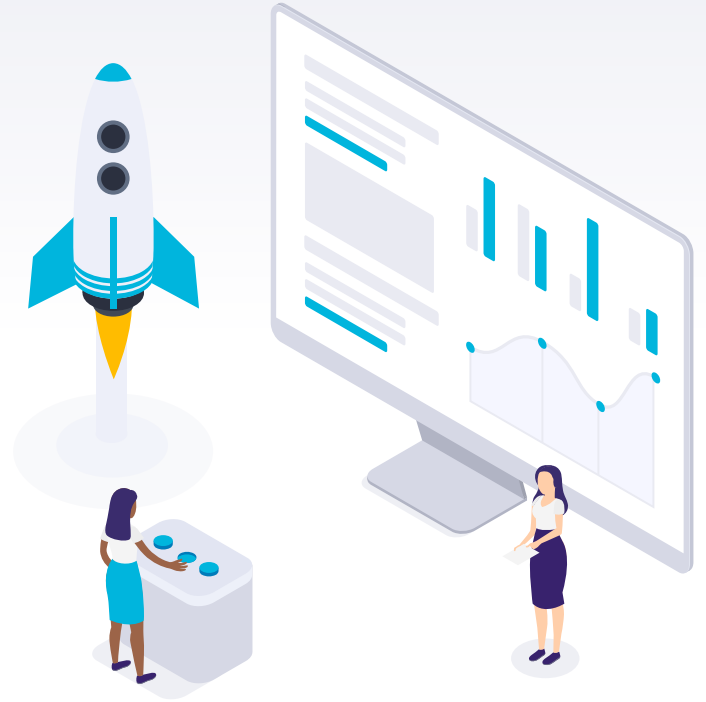
### 3.3.2 Sequence diagram for Task Execution



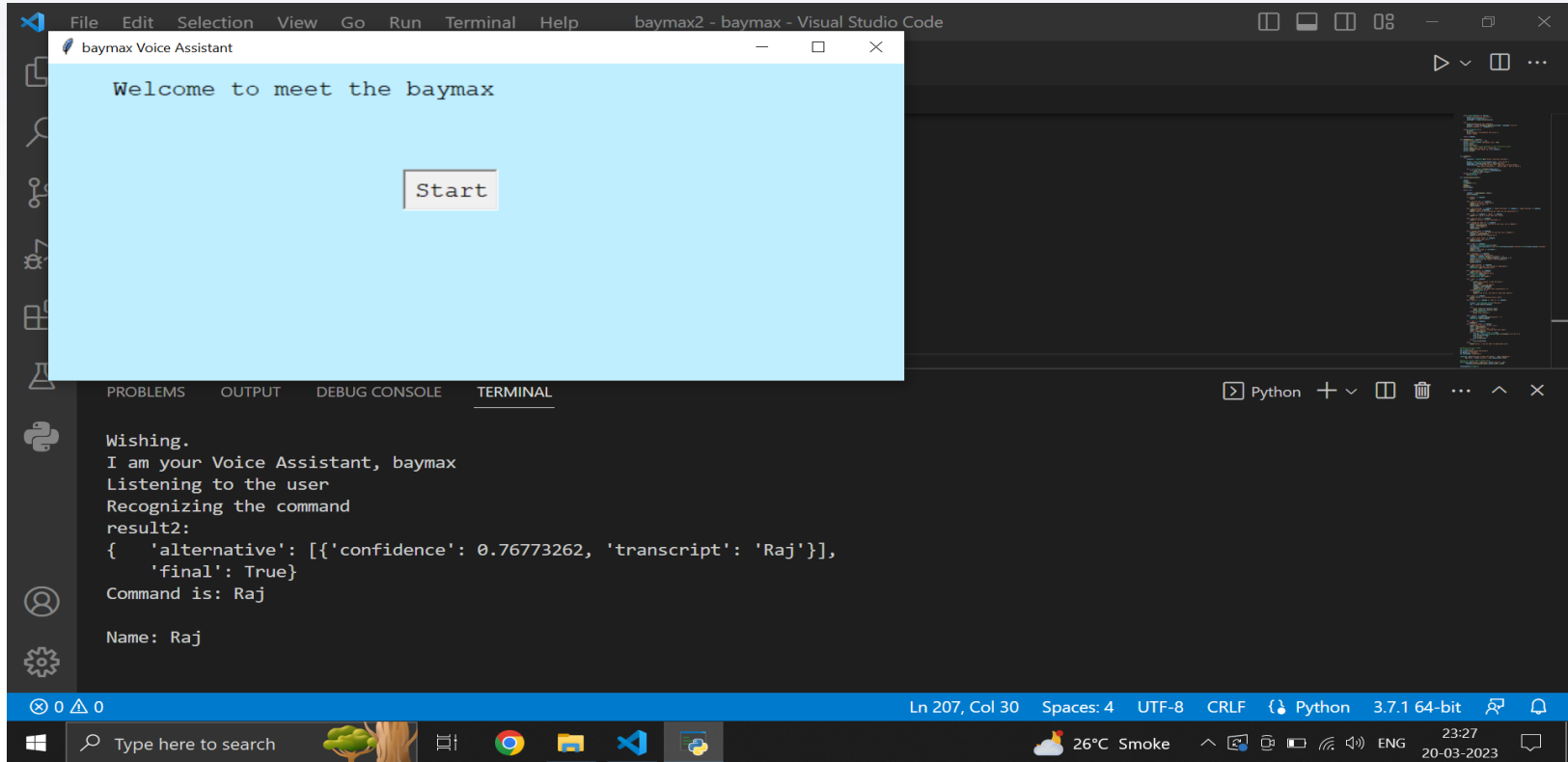
## 3.4 Activity Diagram



# 4 User interface



# 4.1 Snap-Shot







The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the output of a Python script that interacts with the baymax Voice Assistant. The script first listens to the user, recognizes the command "time", and then outputs the current time as "18hours14minutes10seconds". It then listens to the user again, recognizes the command "write a note", and outputs a list of suggestions for writing a note.

The baymax Voice Assistant window is also visible, showing a "Welcome to meet the baymax" message and a "Start" button.

```
wikipedia a r rahman
Allah Rakha Rahman (pronunciation ; born A. S. Dileep Kumar; 6 January 1967) is an Indian music composer, record producer, singer, song
writer, musician, multi-instrumentalist and philanthropist, popular for his works in Indian cinema; predominantly in Tamil and Hindi fi
lms, with occasional forays in international cinema, as well as an arrangement of the 20th Century Studios fanfare for Star Studios. Ra
hman is considered one of the most successful and iconic musicians in the
y Awards, two Grammy Awards, a BAFTA Award, a Golden Globe Award, fifteen
Listening to the user
Recognizing the command
result2:
{ 'alternative': [ {'confidence': 0.92995489, 'transcript': 'time'},
{'transcript': 'thyme'}],
'final': True}
Command is: time

time
18hours14minutes10seconds
Listening to the user
Recognizing the command
result2:
{ 'alternative': [ {'confidence': 0.92995483, 'transcript': 'write a note'},
{'transcript': 'right a note'},
{'transcript': 'write a note on'},
{'transcript': 'write a note 8'},
{'transcript': 'write a note or'}],
'final': True}
Command is: write a note
```

baymax Voice Assistant

Welcome to meet the baymax

Start

Ln 20, Col 1 Spaces: 4 UTF-8 CRLF Python 3.7.1 64-bit 18:20 12-05-2023

Visual Studio Code interface showing the baymax2 project. The TERMINAL panel displays the execution of the baymax Voice Assistant, which listens to user commands and recognizes them. The first command is "play One Love", and the second is "are you not occur open".

```
Listening to the user
Recognizing the command
result2:
{ 'alternative': [ { 'confidence': 0.92995483,
                    'transcript': 'play One Love'},
                  { 'transcript': 'play 1 love'},
                  { 'transcript': 'play llove'},
                  { 'transcript': 'play One Luv'},
                  { 'transcript': 'play A One Love'}],
  'final': True}
Command is: play One Love

play one love
Listening to the user
Recognizing the command
result2:
{ 'alternative': [ { 'confidence': 0.73031509,
                    'transcript': 'are you not occur open'},
                  { 'transcript': 'are you not occur'},
                  { 'transcript': 'are you not open'},
                  { 'transcript': 'are you not'},
                  { 'transcript': 'are you not taken'}],
  'final': True}
Command is: are you not occur open

are you not occur open
Listening to the user
Recognizing the command
```

The baymax Voice Assistant window displays the message "Welcome to meet the baymax" and a "Start" button.

Visual Studio Code status bar: Ln 20, Col 1 Spaces: 4 UTF-8 CRLF Python 3.7.1 64-bit

Windows taskbar: 44°C Mostly sunny 18:22 12-05-2023

Visual Studio Code interface showing the execution of a Python script for a voice assistant.

**Terminal Output:**

```
write a note
Listening to the user
Recognizing the command
result2:
{ 'alternative': [ { 'confidence': 0.92995483,
                    'transcript': 'tomorrow dentist appointment'},
                  {'transcript': 'tomorrow dentists appointment'},
                  {'transcript': 'morrow dentist appointment'},
                  {'transcript': 'tomorrow dentist appointment'},
                  {'transcript': "tomorrow's dentist appointment"}],
  'final': True}
Command is: tomorrow dentist appointment

Listening to the user
Recognizing the command
result2:
{ 'alternative': [ { 'confidence': 0.89079678,
                    'transcript': 'yes at 11:00 a.m.'},
                  {'transcript': 'yes at 11 a.m.'},
                  {'transcript': 'us at 11 a.m.'},
                  {'transcript': 'yes it 11:00 a.m.'},
                  {'transcript': 'yas at 11:00 a.m.'}],
  'final': True}
Command is: yes at 11:00 a.m.

Listening to the user
```

**baymax Voice Assistant Window:**

Welcome to meet the baymax

**Status Bar:** Ln 20, Col 1 Spaces: 4 UTF-8 CRLF Python 3.7.1 64-bit

**System Tray:** 44°C Mostly sunny 18:21 12-05-2023

The image shows a Visual Studio Code window titled "baymax2 - baymax - Visual Studio Code". The interface includes a sidebar on the left with icons for Explorer, Search, Source Control, Run and Debug, Extensions, Python, and Settings. The main editor area displays the "TERMINAL" tab, which contains the following text:

```
{  'alternative': [    {  'confidence': 0.73031509,      'transcript': 'are you not occur open'},      {'transcript': 'are you not occur'},      {'transcript': 'are you not open'},      {'transcript': 'are you not'},      {'transcript': 'are you not taken'}],  'confidence': 0.73031509,  'transcript': 'are you not occur open'}

Command is: are you not occur open

are you not occur open
Listening to the user
Recognizing the command
result2:
{  'alternative': [    {  'confidence': 0.92995489, 'transcript': 'exit'},      {'transcript': 'exert'}],  'confidence': 0.92995489,  'transcript': 'exit'}

'final': True}
Command is: exit

exit
PS C:\baymax> & C:/Users/lalwa/Music/python37/python.exe c:/baymax/baymax2
```

Overlaid on the right side of the terminal is a small window titled "baymax Voice Assistant". It has a light blue background and contains the text "Welcome to meet the baymax" and a "Start" button.

The bottom status bar of Visual Studio Code shows "Ln 20, Col 1", "Spaces: 4", "UTF-8", "CRLF", "Python", "3.7.1 64-bit", and system icons for temperature (44°C), weather (Mostly sunny), and time (18:22, 12-05-2023).



# Thank You

