



## Virtual Assistant For Daily Chores Using Python

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# Virtual Assistant For Daily Chores Using Python

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**Abstract**— Virtual assistants are Artificial Intelligent based programs. They are a smart computer program that understands human natural languages through voice commands or text and performs tasks for the user. Virtual Assistant can be used for the reminding task, setting alarm, play music or videos . It is also used for Google search. Virtual assistants are software programs that help you ease your day to day tasks, such as showing weather reports, creating reminders, making shopping lists etc. This system is designed to be used efficiently on desktops. Personal assistants software improves user productivity by managing routine tasks of the user and by providing information from an online source to the user.

## I. INTRODUCTION

The Virtual assistants are Artificial Intelligent based programs. They are a smart computer program that understands human natural languages through voice commands or text and performs tasks for the user.

Virtual Assistant can be used for the reminding task , setting alarm , play music or videos . It is also used for Google search .Virtual assistants are software programs that help you ease your day to day tasks, such as showing weather reports, creating reminders, making shopping lists etc. They can take commands via text (online chat bots) or by voice. Voice-based intelligent assistants need an invoking word or wake word to activate the listener, followed by the command.

## II. METHODOLOGY

The workflow of the basic process of the voice assistant. Speech recognition is used to convert the speech input to text. This text is then fed to the central processor which determines the nature of the command and calls the relevant script for execution.

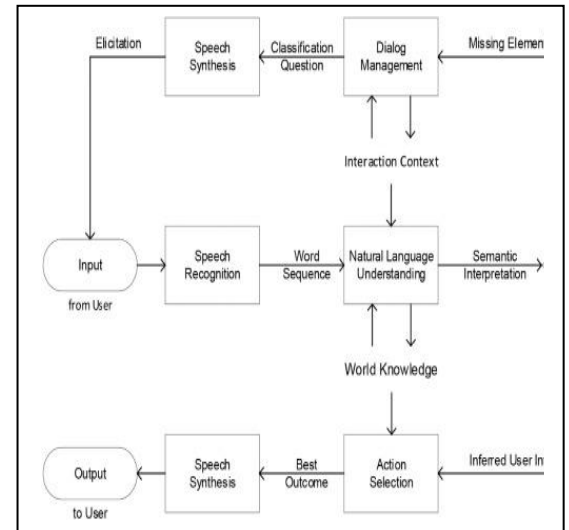


Figure 1: Virtual Assistant Block Diagram

### A. Code

This is the code of the program in the python IDE.

```
nirvikpy - C:\my coding\nirvikpy (3.7.7)
File Edit Format Run Options Window Help

import pyttsx3
import datetime
import speech_recognition as sr
import wikipedia
import webbrowser
import os
import time
import subprocess
from selenium import webdriver

engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
engine.setProperty('voice', voices[0].id)

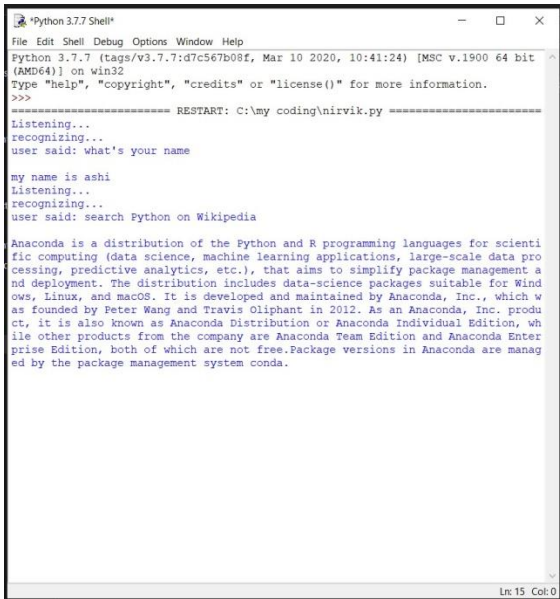
def speak(audio):
    engine.say(audio)
    engine.runAndWait()

def wishMe():
    hour = int(datetime.datetime.now().hour)
    if hour>=0 and hour<12:
        speak("good morning")
    elif hour==12 and hour<18:
        speak("hello,good afternoon")
    else:
        speak("good evening")
    speak("how can i help you?")

def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        r.pause_threshold = 1
        audio = r.listen(source)
```

Fig 2.Code

## B. Output



```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 10:41:24) [MSC v.1900 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\my coding\nirvik.py =====
Listening...
recognizing...
user said: what's your name
my name is ashi
Listening...
recognizing...
user said: search Python on Wikipedia

Anaconda is a distribution of the Python and R programming languages for scienti
fic computing (data science, machine learning applications, large-scale data pro
cessing, predictive analytics, etc.), that aims to simplify package management a
nd deployment. The distribution includes data-science packages suitable for Wind
ows, Linux, and macOS. It is developed and maintained by Anaconda, Inc., which w
as founded by Peter Wang and Travis Oliphant in 2012. As an Anaconda, Inc. produ
ct, it is also known as Anaconda Distribution or Anaconda Individual Edition, wh
ile other products from the company are Anaconda Team Edition and Anaconda Enter
prise Edition, both of which are not free. Package versions in Anaconda are manag
ed by the package management system conda.
```

Fig 3

The virtual Assistant gives the desired output to the user.

## III. CONCLUSION

In This Virtual Assistant mainly focuses on working offline.

It can also help you remind your tasks and schedule even when not connected to internet.

We can create and assign task for the scheduled time.

It can be connected to internet and bluetooth .

Helping old-age people to monitor their health .

Help physically challenged people to do their daily chores.

Assisting persons to manage and analyze their regular schedule.

## IV. REFERENCES

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