



Don Bosco Institute of Technology, Kurla, Mumbai

EXTC Department -SE SEM IV

Mini Project for the Subject: Python

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TITLE: AI DESKTOP ASSISTANT

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Purpose of AI Desktop Assistant: The basic objective of AI (also called heuristic programming, machine intelligence, or the simulation of cognitive behavior) is to enable computers to perform such intellectual tasks as decision making, problem solving, perception, understanding human communication (in any language, and translate among them), and the like. Proof of this objective is the blind test suggested by Alan Turing in the 1930s: if an observer who cannot see the actors (computer and human) cannot tell the difference between them, the objective is satisfied.

CODE:

```
import pyttsx3 # pip install pyttsx3
import speech_recognition as sr # pip install speechRecognition
import datetime
import wikipedia
import webbrowser
import os

engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
# print(voices[1].id)
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("Good Afternoon!")

    else:
        speak("Good Evening!")

    speak("Hello I am Jarvis ,Speed 1 Terahertz, Memory 1 Zettabyte, How may I help you?")

def takeCommand():
    # It takes microphone input from the user and returns string output

    r = sr.Recognizer()
```

```

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

    try:
        print("Recognizing...")
        query = r.recognize_google(audio, language='en-in')
        print(f"User said: {query}\n")

    except Exception as e:
        # print(e)
        print("Say that again please...")
        return "None"
    return query

if __name__ == "__main__":
    wishMe()
while True:
    # if 1:
    query = takeCommand().lower()

    # Logic for executing tasks based on query
    if 'wikipedia' in query:
        speak('Searching Wikipedia...')
        query = query.replace("wikipedia", "")
        results = wikipedia.summary(query, sentences=2)
        speak("According to Wikipedia")
        print(results)
        speak(results)
    elif 'open moodle' in query:
        webbrowser.open("moodle.dbit.in")
    elif 'open youtube' in query:
        webbrowser.open("youtube.com")
    elif 'open google' in query:
        webbrowser.open("google.com")
    elif 'the time' in query:
        strTime = datetime.datetime.now().strftime("%H:%M:%S")
        print(strTime)
        speak(f"Sir, the time is {strTime}")
    elif 'play music' in query:
        music_dir = 'C:\\Users\\Default\\Music'
        songs = os.listdir(music_dir)
        print(songs)
        os.startfile(os.path.join(music_dir, songs[1]))

```

OUTPUT:

```
Listening...
Recognizing...
User said: Shahrukh Khan Wikipedia Wikipedia Shahrukh Khan please
```

The Inner and Outer World of Shahrukh Khan is the release title for a pair of documentaries pertaining to Bollywood superstar Shahrukh Khan, both directed by the London-based writer and producer/director Nasreen Munni Kabir, an authority on Hindi cinema. The first film, The Inner World of Shahrukh Khan, for BBC Four, examines the actor's family history and daily life, while the second, The Outer World of Shahrukh Khan, produced by Khan's Red Chillies Entertainment, follows him on his 2004 Temptations concert tour in Europe and the United States.

```
PS C:\Users\love1\OneDrive\Desktop> c::; cd 'c:\Users\love1\OneDrive\Desktop'; & 'C:\Program Files\Python39\python.exe' 'c:\Users\love1\OneDrive\Desktop\DesktopAssistant.py'
Listening...
Recognizing...
User said: play music

['13 Bewafa (Imran Khan).mp3', 'Gangnam Style PSY.mp3']
Listening...
█
```

Conclusions: Thus in this project we got to work as a team and worked on our communication skills as well. Working collectively on a project helped us learn a lot of other skills as well. Debugging was another aspect where I gained learning.