**Project Title:**

**Dekstop Voice Assistant (Nick’s)**

**A.aim of the project:**

Main aim behinde the creating such(Al) Desktop Voice Assistant is **to "build a personal Google for each and every user.**

**B.what is the project all about?.**

**English personal voice assistant which provides following**

**• It can send emails on your behalf.**

**• It can play music for you.**

**• It can do Wikipedia searches for you.**

**• It is capable of opening websites like Google, Youtube, etc., in a web browser.**

**• It is capable of opening your code editor or IDE with a single voice command**

**D. Technology Used:**

Python3,

python library

like pyttsx3,smtplib

Python module like

Speech recognition, date time, wikipedia, web browser,os.

**E. ToolsUsed**:

I am using pychram for this project.

As well as V.S.code edited.

Pip

Command prompt

**F.Advantages the project:**

1.open app/software present on Desktop

With the help of nik’s Desktop Voice Assistant you can open any app/software i.e. v s code editor without clicking

all you have to do is call the name of app/software and it will open that app/software easily on your Desktop.

2.Open Youtube, Google, stackoverflow,etc

With the help of nick’s desktop Voice Assistant you can open YouTube or Google or stackoverflow etc.

all you have to do is call as open YouTube or open Google or open stack overflow

it will open YouTube or Google or stackoverflow easily on your desktop.

3.play songs

If you are driving or going on road trip.

Then need not touch to ur phone

you can play music just to speak play music on Nick’s desktop voice assistant .

4.It can send email for us

If we want to mail our friend our colleagues then Without clicking on mail icon or app or dekstop app off email

we can just speak to our nicks desktop Voice Assistant like email to receiver name After that assistant asked to us

what should be the content of the email

then just speaking whole content of the email to the Voice Assistant

Voice Assistant automatically close the mail and send it to the another side (to reciver one)

5.It can do wikipedia for us (about any topic)

If we want to know information about any topic place or person then the Wikipedia is so important .

we can do Wikipedia about any entity in the world by just speak to the Nicks desktop Voice Assistant that

Wikipedia- entity name and we got successful result with assistant voice ,About that entity

6.It Gives us current exact time also.

If we need to know of current exact time with a second , minutes, hours and we don’t have any watch or any time showing device then if we just speak to the Nick’s desktop Voice Assistant that- “the time” then it gives us current exact time of the day.

**G.conclusion/output of project:**

We can use this Nick’s desktop voice assistant because it is easy to use and time saving as well as effort saving process also, we can do ur daily task with using such assistant to make ur daily routing easy and fater also.

**Code understanding:**

The whole program coding is Based on the Python

we use here some Python module

here we install first some Python lib/module such as

**Library used**

1.pyttsx3 #pip install pyttsx3

pyttsx is a cross-platform text to speech library which is platform independent.

The major advantage of using this library for text-to-speech conversion is that it works offline

2.smtplib

The smtplib is a Python library for sending emails using the Simple Mail Transfer Protocol (SMTP).

The smtplib is a built-in module; we do not need to install it.

It abstracts away all the complexities of SMTP. To actually send an email, we need to have access to a mail server. Python comes with a simple development mail server.

**Modules used**

1.speechRecognition as sr

#pip installspeechRecognition

Converting text to speech, known as Speech Synthesis, this process is the computer-generated recreation of human speech.

This module converts the human language text into human-like speech audio.

2.wikipedia #pip install wikipedia

Python provide a module Wikipedia API that is used to extract wikipedia data.

The main goal of Wikipedia-API is to provide simple and easy to use API for retrieving informations from Wikipedia.

It supports many operations like extracting text, links, contents, summaries etc from wikipedia.

3.webbrowser.

In Python, webbrowser module provides a high-level interface which allows displaying Web-based documents to users.

The webbrowser module can be used to launch a browser in a platform-independent manne

4.Os

Python OS module is a collection of functions that allows a developer to interact with the Operating System using Python Language.

This module works with every Operating System and has a list of functions and operations that can be executed.

5. datetime-

datetime classes provides a number of function to deal with dates, times and time intervals.

we can install these module by using pip command

Here in this whole program-in main file of py

**We declare 4 types of method/function**

1. def speak(audio):

It is used to give the voice to Nick’s

by using this functions our voice assistance can speak

1. def wishMe():

It is used to wish us/user according to time by using the speak functions

1. def takeCommand():

For use of above function we have to install the speech\_recognization module which human text into human like audio

1. def sendEmail(to, content): it is used to send the mail on server from sender to receiver.

It takes all detail of server, sender,receiver.

It start and close the server also , sending the mail over the server

Main function

if \_\_name\_\_ == "\_\_main\_\_":

**Working of program:**

1.In Main

First wish me function runs

2.In goes in while loop

Quary is taken by take command

3.if condition(quary condition present) in loop

Then it is true and exacute the request

Here quary condition are

Wikipedia

open YouTube

open Google

open stackoverflow

play music

open code

email to piyush

OK stop – use for stop the working of assistance

1. If condition is false then assistance tell us

-to say that again please

In this way working of Nick’s desktop voice assistant occurs, successfully.