

# PROJECT TITLE

Class: \_\_23 “B”\_\_\_\_\_

Group No.\_8\_\_\_\_\_

## Group Members Details

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## Problem Statement

Implementation of libraries.

Voice Recognition.

Compilation Error.

## Key Features/Benefits

- (i) Helpful in day to day life.
- (ii) Control your music.
- (iii) Run timers and remainders.
- (iv) Help in online classes.
- (v) Helpful in finding information online

## List of Software Used

- (i) Python.
- (ii) Pycharm.
- (iii) Google.
- (iv) Wikipedia.

## **Deliverables**

- (i) It can set alarm on giving voice command.
- (ii) It can play music, attend meeting, online classes on giving voice command.

## **CODE :**

```
import speech_recognition as sr
import pyttsx3
import datetime
import wikipedia
import webbrowser
import os
import time
import subprocess
from ecapture import ecapture as ec
import wolframalpha
import json
import requests

print('Loading your AI personal assistant - odin')
```

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

```
def speak(text):
    engine.say(text)
    engine.runAndWait()
```

```
def wishMe():
    hour=datetime.datetime.now().hour
    if hour>=0 and hour<12:
        speak("Hello,Good Morning")
        print("Hello,Good Morning")
    elif hour>=12 and hour<18:
        speak("Hello,Good Afternoon")
        print("Hello,Good Afternoon")
    else:
        speak("Hello,Good Evening")
        print("Hello,Good Evening")
```

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

    try:
        statement=r.recognize_google(audio,language='en-in')
```

```
    print(f"user said:{ statement}\n")

except Exception as e:
    speak("sorry, please say that again")
    return "None"
return statement

speak("Loading your AI personal assistant Odin")
wishMe()

if __name__=='main_':

    while True:
        speak("Tell me how can I help you now?")
        statement = takeCommand().lower()
        if statement==0:
            continue

        if "good bye" in statement or "ok bye" in statement or "stop" in
statement:
            speak('your personal assistant Odin is shutting down,Good bye')
            print('your personal assistant odin is shutting down,Good bye')
            break

        if 'wikipedia' in statement:
            speak('Searching Wikipedia...')
            statement =statement.replace("wikipedia", "")
```

```
results = wikipedia.summary(statement, sentences=3)
speak("According to Wikipedia")
print(results)
speak(results)
```

```
elif 'open youtube' in statement:
    webbrowser.open_new_tab("https://www.youtube.com")
    speak("youtube is open now")
    time.sleep(5)
```

```
elif 'open google' in statement:
    webbrowser.open_new_tab("https://www.google.com")
    speak("Google chrome is open now")
    time.sleep(5)
```

```
elif 'open gmail' in statement:
    webbrowser.open_new_tab("gmail.com")
    speak("Google Mail open now")
    time.sleep(5)
```

```
elif "weather" in statement:
    api_key="8ef61edcf1c576d65d836254e11ea420"
    base_url="https://api.openweathermap.org/data/2.5/weather?"
    speak("whats the city name")
    city_name=takeCommand()
    complete_url=base_url+"appid="+api_key+"&q="+city_name
    response = requests.get(complete_url)
    x=response.json()
    if x["cod"]!="404":
        y=x["main"]
```

```
current_temperature = y["temp"]
current_humidiy = y["humidity"]
z = x["weather"]
weather_description = z[0]["description"]
speak(" Temperature in kelvin unit is " +
      str(current_temperature) +
      "\n humidity in percentage is " +
      str(current_humidiy) +
      "\n description  " +
      str(weather_description))
print(" Temperature in kelvin unit = " +
      str(current_temperature) +
      "\n humidity (in percentage) = " +
      str(current_humidiy) +
      "\n description = " +
      str(weather_description))
```

else:

```
speak(" City Not Found ")
```

elif 'time' in statement:

```
strTime=datetime.datetime.now().strftime("%H:%M:%S")
speak(f"the time is {strTime}")
```

elif 'who are you' in statement or 'what can you do' in statement:

```
speak('I am Odin version 1 point O your persoanl assistant. I am
programmed to minor tasks like')
```

'opening youtube,google chrome,gmail and stackoverflow  
,predict time,take a photo,search wikipedia,predict weather'

'in different cities , get top headline news from times of india  
and you can ask me computational or geographical questions too!')

elif "who made you" in statement or "who created you" in  
statement or "who discovered you" in statement:

```
    speak("I was built by Sameer")  
    print("I was built by Sameer")
```

elif "open stackoverflow" in statement:

```
    webbrowser.open_new_tab("https://stackoverflow.com/")  
    speak("Here is stackoverflow")
```

elif 'news' in statement:

```
    news =  
webbrowser.open_new_tab("https://timesofindia.indiatimes.com/home/h  
eadlines")  
    speak('Here are some headlines from the Times of India,Happy  
reading')  
    time.sleep(6)
```

elif "camera" in statement or "take a photo" in statement:

```
    ec.capture(0,"robo camera","img.jpg")
```

elif 'search' in statement:

```
    statement = statement.replace("search", "")  
    webbrowser.open_new_tab(statement)  
    time.sleep(5)
```

```
# elif 'ask' in statement:
#     speak('I can answer to computational and geographical
questions and what question do you want to ask now')
#     question=takeCommand()
#     app_id="R2K75H-7ELALHR35X"
#     client = wolframalpha.Client('R2K75H-7ELALHR35X')
#     res = client.query(question)
#     answer = next(res.results).text
#     speak(answer)
#     print(answer)

elif "log off" in statement or "sign out" in statement:
    speak("Ok , your pc will log off in 10 sec make sure you exit
from all applications")
    subprocess.call(["shutdown", "/l"])

time.sleep(3)
```

## **Workflow**

### **Step – 1: Weather Report**



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
[Running] python -u "c:\Users\sis s\Desktop\ai project\AI-Personal-Voice-assistant-using-Python-master\venv\virtual.py"
Loading your AI personal assistant - odin
Hello,Good Afternoon
Listening...
Listening...
user said:tell me the time

the time is 14:54:00
Listening...
Listening...
user said:who are you

Listening...
Listening...
user said:please tell me the weather

Listening...
user said:Chandigarh

Temperature in kelvin unit = 293.34
humidity (in percentage) = 50
description = clear sky
Listening...
user said:search Maharana Pratap from Wikipedia
```

## Step – 2: Opening of an application

```
[Running] python -u "c:\Users\sis s\Desktop\ai project\AI-Personal-Voice-assistant-using-Pyth
Loading your AI personal assistant - odin
Hello,Good Afternoon
Listening...
user said:open YouTube
```

## Step – 3:



Search



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Full Song: KHAIRIYAT (BONUS TRACK) | CHHICHHORE | Sushan...

T-Series



Aussies grab late wickets after Green, Smith fire | Vodafone Test...

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