In [3]:
```
!pip install pywhatkit
```

```
Requirement already satisfied: pywhatkit in c:\users\asus\downloads\conda ass\l
ib\site-packages (5.4)
Requirement already satisfied: Pillow in c:\users\asus\downloads\conda ass\lib
\site-packages (from pywhatkit) (9.4.0)
Requirement already satisfied: pyautogui in c:\users\asus\downloads\conda ass\l
ib\site-packages (from pywhatkit) (0.9.54)
Requirement already satisfied: requests in c:\users\asus\downloads\conda ass\li
b\site-packages (from pywhatkit) (2.31.0)
Requirement already satisfied: wikipedia in c:\users\asus\downloads\conda ass\l
ib\site-packages (from pywhatkit) (1.4.0)
Requirement already satisfied: Flask in c:\users\asus\downloads\conda ass\lib\s
ite-packages (from pywhatkit) (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\users\asus\downloads\conda
ass\lib\site-packages (from Flask->pywhatkit) (2.2.3)
Requirement already satisfied: Jinja2>=3.0 in c:\users\asus\downloads\conda ass
\lib\site-packages (from Flask->pywhatkit) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\asus\downloads\con
da ass\lib\site-packages (from Flask->pywhatkit) (2.0.1)
Requirement already satisfied: click>=8.0 in c:\users\asus\downloads\conda ass
\lib\site-packages (from Flask->pywhatkit) (8.0.4)
Requirement already satisfied: pymsgbox in c:\users\asus\downloads\conda ass\li
b\site-packages (from pyautogui->pywhatkit) (1.0.9)
Requirement already satisfied: pytweening>=1.0.4 in c:\users\asus\downloads\con
da ass\lib\site-packages (from pyautogui->pywhatkit) (1.2.0)
Requirement already satisfied: pyscreeze>=0.1.21 in c:\users\asus\downloads\con
da ass\lib\site-packages (from pyautogui->pywhatkit) (1.0.1)
Requirement already satisfied: pygetwindow>=0.0.5 in c:\users\asus\downloads\co
nda ass\lib\site-packages (from pyautogui->pywhatkit) (0.0.9)
Requirement already satisfied: mouseinfo in c:\users\asus\downloads\conda ass\l
ib\site-packages (from pyautogui->pywhatkit) (0.1.3)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\asus\downlo
ads\conda ass\lib\site-packages (from requests->pywhatkit) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\asus\downloads\conda as
s\lib\site-packages (from requests->pywhatkit) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\asus\downloads\co
nda ass\lib\site-packages (from requests->pywhatkit) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\asus\downloads\co
nda ass\lib\site-packages (from requests->pywhatkit) (2023.7.22)
Requirement already satisfied: beautifulsoup4 in c:\users\asus\downloads\conda
ass\lib\site-packages (from wikipedia->pywhatkit) (4.12.2)
Requirement already satisfied: colorama in c:\users\asus\downloads\conda ass\li
b\site-packages (from click>=8.0->Flask->pywhatkit) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\asus\downloads\conda
ass\lib\site-packages (from Jinja2>=3.0->Flask->pywhatkit) (2.1.1)
Requirement already satisfied: pyrect in c:\users\asus\downloads\conda ass\lib
\site-packages (from pygetwindow>=0.0.5->pyautogui->pywhatkit) (0.2.0)
Requirement already satisfied: soupsieve>1.2 in c:\users\asus\downloads\conda a
ss\lib\site-packages (from beautifulsoup4->wikipedia->pywhatkit) (2.4)
Requirement already satisfied: pyperclip in c:\users\asus\downloads\conda ass\l
ib\site-packages (from mouseinfo->pyautogui->pywhatkit) (1.9.0)
```

In [ ]:

```

```

In [2]:

```
!pip install pywhatkit
```

```
Requirement already satisfied: pywhatkit in c:\users\asus\downloads\conda ass\l
ib\site-packages (5.4)
Requirement already satisfied: Pillow in c:\users\asus\downloads\conda ass\lib
\site-packages (from pywhatkit) (9.4.0)
Requirement already satisfied: pyautogui in c:\users\asus\downloads\conda ass\l
ib\site-packages (from pywhatkit) (0.9.54)
Requirement already satisfied: requests in c:\users\asus\downloads\conda ass\li
b\site-packages (from pywhatkit) (2.31.0)
Requirement already satisfied: wikipedia in c:\users\asus\downloads\conda ass\l
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ite-packages (from pywhatkit) (2.2.2)
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\lib\site-packages (from Flask->pywhatkit) (3.1.2)
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\lib\site-packages (from Flask->pywhatkit) (8.0.4)
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nda ass\lib\site-packages (from pyautogui->pywhatkit) (0.0.9)
Requirement already satisfied: mouseinfo in c:\users\asus\downloads\conda ass\l
ib\site-packages (from pyautogui->pywhatkit) (0.1.3)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\asus\downlo
ads\conda ass\lib\site-packages (from requests->pywhatkit) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\asus\downloads\conda as
s\lib\site-packages (from requests->pywhatkit) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\asus\downloads\co
nda ass\lib\site-packages (from requests->pywhatkit) (1.26.16)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\asus\downloads\co
nda ass\lib\site-packages (from requests->pywhatkit) (2023.7.22)
Requirement already satisfied: beautifulsoup4 in c:\users\asus\downloads\conda
ass\lib\site-packages (from wikipedia->pywhatkit) (4.12.2)
Requirement already satisfied: colorama in c:\users\asus\downloads\conda ass\li
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Requirement already satisfied: MarkupSafe>=2.0 in c:\users\asus\downloads\conda
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\site-packages (from pygetwindow>=0.0.5->pyautogui->pywhatkit) (0.2.0)
Requirement already satisfied: soupsieve>1.2 in c:\users\asus\downloads\conda a
ss\lib\site-packages (from beautifulsoup4->wikipedia->pywhatkit) (2.4)
Requirement already satisfied: pyperclip in c:\users\asus\downloads\conda ass\l
ib\site-packages (from mouseinfo->pyautogui->pywhatkit) (1.9.0)
```

In [ ]:

```
import pyttsx3
import speech_recognition as sr
import datetime
import wikipedia
import wikipedia
import pywhatkit
import os

engine = pyttsx3.init()
engine.setProperty('rate',150)#adjust the speaking speed
engine.setProperty('volume',0.9)#set the volume(0.0 to 1.0)

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

def greet_user():
    hour = datetime.datetime.now().hour
    if hour<12:
        speak("Good Morning!")
    elif hour<18:
        speak("Good afternoon!")
    else:
        speak("Good evening!")
    speak("I am your desktop assistant.How may i help you?")

def take_command():
    recoginzer = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        recoginzer.pause_threshold = 2 #pause between the phrase
        audio = recoginzer.listen(source)

    try:
        print("Recogizing...")
        command = recoginzer.recognize_google(audio, language='en-in')
        print(f"you said: {command}")
    except Exception as e:
        print("Sorry i cannot understand. Could you say again?")
        return None
    return command.lower()


#Main
def run_assistant():
    greet_user()
    while True:
        command = take_command()

        if command is None:
            continue

        if 'time' in command:
            current_time = datetime.datetime.now().strftime("%H:%M:%Y")
            speak(f"The Time is {current_time}")
        elif 'date' in command:
            current_time = datetime.datetime.now().strftime("%A, %d %B %Y")
            speak(f"The Time is {current_time}")

        elif 'search for' in command:
            topic = command.replace('search for', '').strip()
            result = wikipedia.summary(topic)
            print(f"According to wiki: {result}")
        elif 'play' in command:
            song = command.replace('play', '').strip()
            speak(f"Playing {song} on YouTube")
            pywhatkit.playonyt(song)
        elif 'open notepad' in command:
            os.system('notepad')
        elif 'exit' in command or 'stop' in command:
            speak("Goodbye! Have a great day!")
            break
        else:
            speak("I didn't understand that. Can you please repeat?")


# Run the Assistant
if __name__ == "__main__":
    run_assistant()
```

In [2]:

```
pip install pyaudio
```

```
Requirement already satisfied: pyaudio in c:\users\asus\downloads\conda ass\lib
\site-packages (0.2.14)
Note: you may need to restart the kernel to use updated packages.
```

In [1]:

```
import pyaudio
```

In [6]:

```
import pyttsx3
import speech_recognition as sr
import datetime
import wikipedia
import wikipedia
import pywhatkit
import os

engine = pyttsx3.init()
engine.setProperty('rate',150)#adjust the speaking speed
engine.setProperty('volume',0.9)#set the volume(0.0 to 1.0)

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

def greet_user():
    hour = datetime.datetime.now().hour
    if hour<12:
        speak("Good Morning!")
    elif hour<18:
        speak("Good afternoon!")
    else:
        speak("Good evening!")
    speak("I am your desktop assistant.How may i help you?")

def take_command():
    recoginzer = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        recoginzer.pause_threshold = 2 #pause between the phrase
        audio = recoginzer.listen(source)

    try:
        print("Recogizing...")
        command = recoginzer.recognize_google(audio, language='en-in')
        print(f"you said: {command}")
    except Exception as e:
        print("Sorry i cannot understand. Could you say again?")
        return None
    return command.lower()


#Main
def run_assistant():
    greet_user()
    while True:
        command = take_command()

        if command is None:
            continue

        if 'time' in command:
            current_time = datetime.datetime.now().strftime("%H:%M:%Y")
            speak(f"The Time is {current_time}")
        elif 'date' in command:
            current_time = datetime.datetime.now().strftime("%A, %d %B %Y")
            speak(f"The Time is {current_time}")

        elif 'search for' in command:
            topic = command.replace('search for', '').strip()
            result = wikipedia.summary(topic)
            print(f"According to wiki: {result}")
        elif 'play' in command:
            song = command.replace('play', '').strip()
            speak(f"Playing {song} on YouTube")
            pywhatkit.playonyt(song)
        elif 'open notepad' in command:
            os.system('notepad')
        elif 'open Downloads' in command:
            os.system('Downloads')
        elif 'exit' in command or 'stop' in command:
            speak("Goodbye! Have a great day!")
            break
        else:
            speak("I didn't understand that. Can you please repeat?")


# Run the Assistant
if __name__ == "__main__":
    run_assistant()
```

```
Listening...
Recogizing...
you said: open Notepad yeah open Notepad
Listening...
Recogizing...
you said: open downloads
Listening...
Recogizing...
you said: download
Listening...
Recogizing...
you said: stop
```

In [8]:

```
import pyttsx3
import speech_recognition as sr
import datetime
import wikipedia
import pywhatkit
import os

engine = pyttsx3.init()
engine.setProperty('rate', 150)  # adjust the speaking speed
engine.setProperty('volume', 0.9)  # set the volume(0.0 to 1.0)

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

def greet_user():
    hour = datetime.datetime.now().hour
    if hour < 12:
        speak("Good Morning!")
    elif hour < 18:
        speak("Good afternoon!")
    else:
        speak("Good evening!")
    speak("I am your desktop assistant. How may I help you?")

def take_command():
    recognizer = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        recognizer.pause_threshold = 2  # pause between the phrase
        audio = recognizer.listen(source)

    try:
        print("Recognizing...")
        command = recognizer.recognize_google(audio, language='en-in')
        print(f"You said: {command}")
    except Exception as e:
        print("Sorry, I could not understand. Could you say again?")
        return None
    return command.lower()

# Main
def run_assistant():
    greet_user()
    while True:
        command = take_command()

        if command is None:
            continue

        if 'time' in command:
            current_time = datetime.datetime.now().strftime("%H:%M:%S")
            speak(f"The Time is {current_time}")
        elif 'date' in command:
            current_time = datetime.datetime.now().strftime("%A, %d %B %Y")
            speak(f"The Date is {current_time}")
        elif 'search for' in command:
```

```python
            topic = command.replace('search for', '').strip()
            result = wikipedia.summary(topic, sentences=2)
            print(f"According to Wikipedia: {result}")
            speak(f"According to Wikipedia: {result}")
        elif 'play' in command:
            song = command.replace('play', '').strip()
            speak(f"Playing {song} on YouTube")
            pywhatkit.playonyt(song)
        elif 'open notepad' in command:
            os.system('notepad')
        elif 'open chrome' in command:
            os.system('start chrome')
        elif 'open word' in command:
            os.system('start winword')
        elif 'open calculator' in command:
            os.system('start calc')
        elif 'open command prompt' in command:
            os.system('start cmd')
        elif 'open file explorer' in command:
            os.system('start explorer')
        elif 'exit' in command or 'stop' in command:
            speak("Goodbye! Have a great day!")
            break
        else:
            speak("I didn't understand that. Can you please repeat?")

# Run the Assistant
if __name__ == "__main__":
    run_assistant()
```

```
Listening...
Recognizing...
Sorry, I could not understand. Could you say again?
Listening...
Recognizing...
You said: open Chrome
Listening...
Recognizing...
You said: start YouTube on Chrome search for YouTube search for YouTube
According to Wikipedia: YouTube is an American online video-sharing platform he
adquartered in San Bruno, California, founded by three former PayPal employees—
Chad Hurley, Steve Chen, and Jawed Karim—in February 2005. Google bought the si
te in November 2006 for US$1.65 billion, since which it operates as one of Goog
le's subsidiaries.
Listening...
Recognizing...
You said: who is MS Dhoni
Listening...
Recognizing...
You said: search MS Dhoni
Listening...
Recognizing...
You said: search for MS Dhoni
```

```
---------------------------------------------------------------------------
PageError                                 Traceback (most recent call last)
Cell In[8], line 86
     84 # Run the Assistant
     85 if __name__ == "__main__":
---> 86     run_assistant()

Cell In[8], line 59, in run_assistant()
     57 elif 'search for' in command:
     58     topic = command.replace('search for', '').strip()
---> 59     result = wikipedia.summary(topic, sentences=2)
     60     print(f"According to Wikipedia: {result}")
     61     speak(f"According to Wikipedia: {result}")

File ~\Downloads\conda ass\Lib\site-packages\wikipedia\util.py:28, in cache.__c
all__(self, *args, **kwargs)
     26   ret = self._cache[key]
     27 else:
---> 28   ret = self._cache[key] = self.fn(*args, **kwargs)
     30 return ret

File ~\Downloads\conda ass\Lib\site-packages\wikipedia\wikipedia.py:231, in sum
mary(title, sentences, chars, auto_suggest, redirect)
    216 '''
    217 Plain text summary of the page.
    218
   (...)
    226 * redirect - allow redirection without raising RedirectError
    227 '''
    229 # use auto_suggest and redirect to get the correct article
    230 # also, use page's error checking to raise DisambiguationError if neces
sary
--> 231 page_info = page(title, auto_suggest=auto_suggest, redirect=redirect)
    232 title = page_info.title
    233 pageid = page_info.pageid

File ~\Downloads\conda ass\Lib\site-packages\wikipedia\wikipedia.py:276, in pag
e(title, pageid, auto_suggest, redirect, preload)
    273     except IndexError:
    274       # if there is no suggestion or search results, the page doesn't e
xist
    275       raise PageError(title)
--> 276   return WikipediaPage(title, redirect=redirect, preload=preload)
    277 elif pageid is not None:
    278   return WikipediaPage(pageid=pageid, preload=preload)

File ~\Downloads\conda ass\Lib\site-packages\wikipedia\wikipedia.py:299, in Wik
ipediaPage.__init__(self, title, pageid, redirect, preload, original_title)
    296 else:
    297   raise ValueError("Either a title or a pageid must be specified")
--> 299 self.__load(redirect=redirect, preload=preload)
    301 if preload:
    302   for prop in ('content', 'summary', 'images', 'references', 'links',
'sections'):

File ~\Downloads\conda ass\Lib\site-packages\wikipedia\wikipedia.py:345, in Wik
ipediaPage.__load(self, redirect, preload)
```

```
    343 if 'missing' in page:
    344   if hasattr(self, 'title'):
--> 345     raise PageError(self.title)
    346   else:
    347     raise PageError(pageid=self.pageid)

PageError: Page id "m s dhoni" does not match any pages. Try another id!
```

In [4]:

```python
import pyttsx3
import speech_recognition as sr
import datetime
import wikipedia
import pywhatkit
import os

# Initialize the text-to-speech engine
engine = pyttsx3.init()
engine.setProperty('rate', 150)  # Adjust speaking speed
engine.setProperty('volume', 0.9)  # Set volume (0.0 to 1.0)

def speak(text):
    """Convert text to speech and speak it out loud."""
    engine.say(text)
    engine.runAndWait()

def greet_user():
    """Greet the user based on the time of day."""
    hour = datetime.datetime.now().hour
    if hour < 12:
        speak("Good Morning!")
    elif hour < 18:
        speak("Good Afternoon!")
    else:
        speak("Good Evening!")
    speak("I am your desktop assistant. How may I help you?")

def take_command():
    """Listen to the user's command and return it as text."""
    recognizer = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        recognizer.pause_threshold = 2  # Pause between phrases
        audio = recognizer.listen(source)

    try:
        print("Recognizing...")
        command = recognizer.recognize_google(audio, language='en-in')
        print(f"You said: {command}")
    except Exception as e:
        print("Sorry, I could not understand. Could you say again?")
        return None
    return command.lower()

def run_assistant():
    """Main loop to process user commands."""
    greet_user()
    while True:
        command = take_command()

        if command is None:
            continue

        # Time command
        if 'time' in command:
            current_time = datetime.datetime.now().strftime("%H:%M:%S")
            speak(f"The time is {current_time}")

        # Date command
        elif 'date' in command:
            current_date = datetime.datetime.now().strftime("%A, %d %B %Y")
            speak(f"The date is {current_date}")

        # Search Wikipedia
        elif 'search for' in command:
            topic = command.replace('search for', '').strip()
            try:
                result = wikipedia.summary(topic, sentences=2)
                print(f"According to Wikipedia: {result}")
                speak(f"According to Wikipedia: {result}")
            except wikipedia.exceptions.DisambiguationError as e:
                speak(f"Sorry, there were multiple results. Please be more specif
            except wikipedia.exceptions.HTTPTimeoutError as e:
                speak(f"Sorry, I couldn't fetch the information. Please try agai

        # Play music on YouTube
        elif 'play' in command:
            song = command.replace('play', '').strip()
            speak(f"Playing {song} on YouTube")
            pywhatkit.playonyt(song)

        # Open Notepad
        elif 'open notepad' in command:
            os.system('notepad')

        # Open Downloads folder
        elif 'open downloads' in command:
            os.system('start explorer "%USERPROFILE%\\Downloads"')

        # Open Chrome browser
        elif 'open chrome' in command:
            os.system('start chrome')

        # Open Microsoft Word
        elif 'open word' in command:
            os.system('start winword')

        # Open Calculator
        elif 'open calculator' in command:
            os.system('start calc')

        # Open Command Prompt
        elif 'open command prompt' in command:
            os.system('start cmd')

        # Open File Explorer
        elif 'open file explorer' in command:
            os.system('start explorer')

        # Exit or Stop the Assistant
        elif 'exit' in command or 'stop' in command:
            speak("Goodbye! Have a great day!")
            break
        # If the assistant doesn't understand the command
        else:
            speak("I didn't understand that. Can you please repeat?")

# Run the Assistant
if __name__ == "__main__":
    run_assistant()
```

```
Listening...
Recognizing...
You said: restart my PC
Listening...
Recognizing...
You said: shutdown
Listening...
Recognizing...
You said: stop
```

In [ ]: