

# ATLAS

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## 1 ATLAS

**Hey, do you ever wonder what if you have an assistant to do some small things on your laptop just by typing some small words or a sentence?**

1. Example: can you draw something for me? (opens MSPaint)
2. Example: I need to do some editing. (opens photoshop)
3. Example: Day (Tells you the day.)
4. Example: can you play some videos for me? (opens youtube)
5. Example: let's do some scrolling. (opens Instagram)
6. Example: I'm in a party mood. (opens window media player )
7. Example: Open my connections. (opens linkedin)
8. Example: Do i need to carry my umbrella? (opens weather app)
9. Example: ppt/slides (opens powerpoint)
10. Example: where am i? (open maps)
11. Example: wpc/WPC (open windows parental control)
12. Example: let's play some cards. (opens Microsoft Solitaire Collection)

**Here I present you ATLAS.**

**This is a very simple code in python and the work is authentic and not copied from any of the websites. It requires a lot of work to do to handle every critical statement. For starters, you need to give your name as an input.**

**Then ATLAS can tell/open:**

1. Time(24 hour clock)
2. Date
3. Month
4. Weekday
5. Gmail(By default)
6. Instagram
7. Whatsapp
8. Youtube
9. Facebook
10. Twitter

11. Linkedin
12. Excel
13. Word
14. PowerPoint
15. Outlook
16. Infopath
17. Onenote
18. MSGroove.
19. Notepad
20. Snipping tool
21. Photoshop
22. MSPaint
23. Calculator
24. Acrobat PDF reader
25. Control panel
26. Windows media player
27. VLC
28. Chrome browser.
29. Settings
30. Calendar
31. Weather
32. Webcam
33. Photos
34. Store
35. IBM SPSS
36. Maps
37. Windows parental control
38. Microsoft Solitaire Collection

NOTE : ATLAS includes Microsoft windows preinstalled programs and other applications like photoshop and the applications(offline) which are mentioned above must be installed in your machine before hand to work with ATLAS. \*\* (Compatible with windows for now) \*\*

### **1.0.1 HOW TO WORK WITH ATLAS:**

**There are some initial steps you need to know:**

1. After starting/executing ATLAS, it will ask for your name.
2. Then atlas will wish you good morning, good afternoon or good evening. (Don't worry, ATLAS is quite humble and respectful towards everyone.)
3. Then you can hear the voice of ATLAS saying "How can i assist you"?
4. Running applications using ATLAS is quite simple, you just know the name of the application and ATLAS will handle the rest.

## 2 KEYWORDS:

- For calendar : Calendar
- For day name : Day
- For saying bye to ATLAS : see ya, see you, exit, quit, bye, toodles.
- For Windows parental control : WPC/wpc
- For calendar : calc (you can also ask like: can you help me with some calculations?)

### Importing OS module.

- If os module is not available in your environment then please install using : ##### pip install os

```
[ ]: import os
```

### Importing pyttsx3 module.

- If pyttsx3 module is not available in your environment then please install using : pip install pyttsx3

#### 2.0.1 USE of this module:

1. To convert text to speech and making the code more interactive.
2. We can just simply use SPEAK function from pyttsx3 module. To do that, run the command : from pyttsx3 import speak

```
[ ]: from pyttsx3 import speak
```

### Importing Datetime module.

- If Datetime module is not available in your environment then please install using : pip install datetime

#### 2.1 USE of this module:

1. To deal with date and time.
2. To make it more user friendly, we can just use the datetime function from datetime module. To do that, run this command: from datetime import datetime

#### 2.2 Today() function:

This function allows to see the present date.

## 2.3 Accessing elements of datetime like:

1. Minutes
2. Hours
3. Day
4. weekday(Name of the day)
5. Month
6. year

To Access the above elements, we can use STRFTIME() function. There are various string formatting to extract the various parts of the datetime.

1. To access present day or name of the day. ('%A')
2. To access hour. ('%H')
3. To access minutes. ('%M')
4. To access month name. ('%B')
5. To access the which day of month it is. ('%d')
6. To access year. ('%Y')

### 2.3.1 Example: datetime.today().strftime('%A')

```
[ ]: from datetime import datetime
```

## 3 Python code for ATLAS:

```
[ ]: import os
from pyttsx3 import speak
from datetime import datetime
name = input('Enter your name :')

if ((datetime.today().hour >= 5) and (datetime.today().hour < 12)):
    speak('Good morning'+ ' '+name+'. This is how the weather looks like for the_
    →day.')
    os.system('start bingweather:')
elif ((datetime.today().hour >= 12) and (datetime.today().hour < 18)):
    speak('good afternoon'+ ' '+name)
elif ((datetime.today().hour >= 18)):
    speak('good evening'+ ' '+name)
speak('How can i assist you?')

while True:
    x = input()
    if (('time' in x) or ('clock' in x)):
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        speak(datetime.today().strftime('%H hours and %M minutes'))
    elif (('name' in x) or ('who am i' in x)):
        speak('You are '+name)
    elif ('date' in x):
        speak(datetime.today().strftime('Today is %B %dth %Y'))
    elif (('Day' in x) or ('weekday' in x)):
        speak(datetime.today().strftime('Today is %A'))
    elif (('year' in x) or ('Year' in x) or ('Yr' in x) or ('yr' in x)):
        speak(datetime.today().strftime('The year is %Y'))
    elif ('month' in x):
        speak(datetime.today().strftime('The current month is %B'))
    elif (('notepad' in x) or ('editor' in x) or ('text' in x) or ('txt' in x)
    →or ('note' in x) or ('Note' in x)):
        speak('Do you want to name your file? Press Enter if No.')
        file = input('Enter file name: ')
        os.system('notepad'+ ' '+file)
    elif (('chrome' in x) or ('browser' in x) or ('google' in x) or ('surfing'
    →in x)):
        speak('Which website do you want me to search??')
        website = input('Enter wesbite: ')
        os.system('chrome'+ ' '+website+'.com')
    elif (('videos' in x) or ('mp4' in x) or ('youtube' in x)):
        speak('Here is what i have found.')
        os.system('start chrome youtube.com')
    elif (('scrolling' in x) or ('insta' in x) or ('gram' in x) or ('instagram'
    →in x) or ('ig' in x) or ('IG' in x)):
        os.system('start chrome instagram.com')
    elif (('mail' in x) or ('gmail' in x)):
        os.system('start chrome gmail.com')
    elif (('facebook' in x) or ('Facebook' in x) or ('fb' in x) or ('FB' in x)):
        os.system('start chrome facebook.com')
    elif (('whatsapp' in x) or ('Whatsapp' in x) or ('chatting' in x) or
    →('messages' in x)):
        os.system('chrome web.whatsapp.com')
    elif (('tweet' in x) or ('twitter' in x) or ('Twitter' in x) or ('Tweet' in
    →x)):
        os.system('chrome twitter.com')
    elif (('linkedin' in x) or ('linked' in x) or ('connections' in x)):
        os.system('chrome linkedin.com')
    elif (('photoshop' in x) or ('PS' in x) or ('ps' in x) or ('photo' in x) or
    →('photo editor' in x) or ('editing' in x)):
        os.system('start photoshop')
    elif (('wmplayer' in x) or ('music' in x) or ('player' in x) or ('media' in
    →x) or ('party' in x)):
        os.system('start wmplayer')
    elif (('control panel' in x) or ('control' in x) or ('panel' in x)):

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        os.system('start control panel')
    elif (('vlc' in x) or ('VLC' in x) ):
        os.system('start vlc')
    elif (('3D' in x) or ('3d' in x) or ('builder' in x)):
        os.system('start com.microsoft.builder3d:')
    elif (('paint' in x) or ('Paint' in x) or ('drawing' in x) or ('draw' in x)):
        speak('i never knew you like drawing')
        os.system('start mspaint')
    elif (('pdf' in x) or ('reader' in x) or ('acrobat reader' in x) or ('pdf_
→reader' in x) or ('Pdf' in x) or ('read' in x)):
        os.system('acrord32')
    elif (('cal' in x) or ('calculator' in x) or ('calc' in x) or ('maths' in x)_
→or ('calculations' in x) or ('mathematics' in x)):
        speak('Well, not to show off, but i was really good in mathematics in my_
→high school')
        os.system('calc')
    elif (('msword' in x) or ('word' in x) or ('doc' in x) or ('document' in x)):
        os.system('start winword')
    elif (('msoutlook' in x) or ('Outlook' in x) or ('outlook' in x)):
        os.system('start outlook')
    elif (('ppt' in x) or ('presentation' in x) or ('slides' in x) or_
→('powerpoint' in x)):
        os.system('start powerpnt')
    elif (('Access' in x) or ('msaccess' in x) or ('access' in x)):
        os.system('start msaccess')
    elif (('excel' in x) or ('database' in x) or ('spreadsheet' in x) or_
→('spreadsheets' in x) or ('msexcel' in x)):
        os.system('start excel')
    elif (('onenote' in x) or ('Onenote' in x) or ('msonenote' in x) or_
→('Msonenote' in x)):
        os.system('start onenote')
    elif (('msgroove' in x) or ('groove' in x) or ('Msgroove' in x)):
        os.system('start groove')
    elif (('infopath' in x) or ('msinfopath' in x)):
        os.system('start infopath')
    elif (('snip' in x) or ('snippingtool' in x) or ('Snip' in x)):
        os.system('start snippingtool')
    elif (('weather' in x) or ('weather forecast' in x) or ('umbrella' in x) or_
→('rainy day' in x) or ('sunny' in x)
        or ('stormy' in x) or ('cloudy' in x) or ('wet' in x) or ('cold' in x)_
→or ('dry' in x)
        or ('windy' in x)):
        os.system('start bingweather:')
    elif (('Calendar' in x)):
        os.system('start outlookcal:')
    elif (('wifi' in x) or ('networks' in x)):

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        os.system('start ms-availablenetworks:')
    elif (('settings' in x) or ('action center' in x) or ('action centre' in x)):
        os.system('start ms-actioncenter:')
    elif (('webcam' in x) or ('camera' in x)):
        os.system('start microsoft.windows.camera:')
    elif (('gallery' in x) or ('album' in x)):
        os.system('start ms-photos:')
    elif ('store' in x):
        os.system('start ms-windows-store:')
    elif (('stats' in x) or ('IBM' in x) or ('ibm' in x) or ('spps' in x) or
→('SPSS' in x)):
        os.system('start stats')
    elif (('directions' in x) or ('where' in x) or ('maps' in x)):
        os.system('start bingmaps:')
    elif ('parental' in x) or ('wpc' in x) or ('WPC' in x):
        os.system('start ms-wpc:')
    elif (('bored' in x) or ('cards' in x) or ('solitaire' in x)):
        speak('i guess it is time for some fun.')
        os.system('start xboxliveapp-1297287741:')
    elif (('exit' in x) or ('bye' in x) or ('see ya' in x) or ('toodles' in x)
→or ('quit' in x)
        or ('see you' in x) or ('Quit' in x) or ('See you' in x) or ('see
→ya' in x) or ('Exit' in x)
        or ('Bye' in x) or ('Toodles' in x)):
        speak('See you tomorrow'+ ' '+name)
    if ((datetime.today().hour >= 5) and (datetime.today().hour < 12)):
        speak('Wishing you a good morning and have a optimistic day')
    elif ((datetime.today().hour >= 12) and (datetime.today().hour < 18)):
        speak('Wishing you a good afternoon filled with relaxation.')
    elif ((datetime.today().hour >= 18) and (datetime.today().hour < 22)):
        speak('Wishing you a delightful evening.â€œ')
    elif (datetime.today().hour >= 22):
        speak('Have a Good night, may your dreams be kind.')
    break
else:
    speak("i don't understand what are you asking me to do.")

```