```
pip install speechrecognition
```

```
Collecting speechrecognition
  Downloading SpeechRecognition-3.8.1-py2.py3-none-any.whl (32.8 MB)
     |████████████████████████████████| 32.8 MB 44.6 MB/s eta 0:00:01
Installing collected packages: speechrecognition
Successfully installed speechrecognition-3.8.1
Note: you may need to restart the kernel to use updated packages.
```

```
pip install pyttsx3
```

```
Collecting pyttsx3
  Downloading pyttsx3-2.90-py3-none-any.whl (39 kB)
Collecting pyobjc>=2.4; platform_system == "Darwin"
  Downloading pyobjc-7.0-py3-none-any.whl (3.0 kB)
Collecting pyobjc-framework-DiscRecording==7.0
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Collecting pyobjc-framework-LocalAuthentication==7.0; platform_release >= "14.0"
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Collecting pyobjc-framework-ContactsUI==7.0; platform_release >= "15.0"
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kB)
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kB)
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Collecting pyobjc-framework-MediaToolbox==7.0; platform_release >= "13.0"
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)
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7 kB)
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Collecting pyobjc-framework-IMServicePlugIn==7.0; platform_release >= "11.0"
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Collecting pyobjc-framework-SearchKit==7.0
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Collecting pyobjc-framework-CFNetwork==7.0
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Collecting pyobjc-framework-ScreenSaver==7.0
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Collecting pyobjc-framework-SyncServices==7.0
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Collecting pyobjc-framework-CoreAudioKit==7.0
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Collecting pyobjc-framework-LatentSemanticMapping==7.0
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Collecting pyobjc-framework-OSAKit==7.0
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Collecting pyobjc-framework-ServiceManagement==7.0; platform_release >= "10.0"
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Collecting pyobjc-framework-GameKit==7.0; platform_release >= "12.0"
  Downloading pyobjc_framework_GameKit-7.0-cp36-abi3-macosx_10_9_x86_64.whl (14 kB)
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Installing collected packages: pyobjc-core, pyobjc-framework-Cocoa, pyobjc-framework-Disc
Recording, pyobjc-framework-LocalAuthentication, pyobjc-framework-Contacts, pyobjc-framew
ork-ContactsUI, pyobjc-framework-ExceptionHandling, pyobjc-framework-Intents, pyobjc-fram
ework-SystemExtensions, pyobjc-framework-CoreMedia, pyobjc-framework-DVDPlayback, pyobjc-
framework-UserNotifications, pyobjc-framework-NetworkExtension, pyobjc-framework-Calendar
Store, pyobjc-framework-PreferencePanes, pyobjc-framework-ImageCaptureCore, pyobjc-framew
ork-Quartz, pyobjc-framework-VideoToolbox, pyobjc-framework-FileProvider, pyobjc-framewor
k-Security, pyobjc-framework-SecurityFoundation, pyobjc-framework-CoreMotion, pyobjc-fram
ework-EventKit, pyobjc-framework-CoreLocation, pyobjc-framework-MapKit, pyobjc-framework-
ApplicationServices, pyobjc-framework-DeviceCheck, pyobjc-framework-MediaToolbox, pyobjc-
framework-CoreAudio, pyobjc-framework-CoreMIDI, pyobjc-framework-AddressBook, pyobjc-fram
ework-AppleScriptObjC, pyobjc-framework-AVFoundation, pyobjc-framework-BusinessChat, pyob
```

jc-framework-ExecutionPolicy, pyobjc-framework-Social, pyobjc-framework-AVKit, pyobjc-framework-LinkPresentation, pyobjc-framework-CoreSpotlight, pyobjc-framework-WebKit, pyobjc-framework-CoreHaptics, pyobjc-framework-Collaboration, pyobjc-framework-AuthenticationServices, pyobjc-framework-QuickLookThumbnailing, pyobjc-framework-Automator, pyobjc-framework-DiskArbitration, pyobjc-framework-CoreMediaIO, pyobjc-framework-OpenDirectory, pyobjc-framework-SafariServices, pyobjc-framework-Speech, pyobjc-framework-CoreData, pyobjc-framework-Accounts, pyobjc-framework-CloudKit, pyobjc-framework-AdSupport, pyobjc-framework-CoreML, pyobjc-framework-ModelIO, pyobjc-framework-libdispatch, pyobjc-framework-PushKit, pyobjc-framework-CoreText, pyobjc-framework-VideoSubscriberAccount, pyobjc-framework-Photos, pyobjc-framework-FSEvents, pyobjc-framework-CoreServices, pyobjc-framework-LaunchServices, pyobjc-framework-MediaLibrary, pyobjc-framework-SpriteKit, pyobjc-framework-GameplayKit, pyobjc-framework-PhotosUI, pyobjc-framework-AutomaticAssessmentConfiguration, pyobjc-framework-SystemConfiguration, pyobjc-framework-FileProviderUI, pyobjc-framework-Metal, pyobjc-framework-IOSurface, pyobjc-framework-CryptoTokenKit, pyobjc-framework-AppleScriptKit, pyobjc-framework-MediaPlayer, pyobjc-framework-CoreBluetooth, pyobjc-framework-MediaAccessibility, pyobjc-framework-NotificationCenter, pyobjc-framework-FinderSync, pyobjc-framework-StoreKit, pyobjc-framework-SceneKit, pyobjc-framework-MetalPerformanceShaders, pyobjc-framework-SoundAnalysis, pyobjc-framework-MultipeerConnectivity, pyobjc-framework-InputMethodKit, pyobjc-framework-ExternalAccessory, pyobjc-framework-InstallerPlugins, pyobjc-framework-NetFS, pyobjc-framework-SecurityInterface, pyobjc-framework-IMServicePlugIn, pyobjc-framework-NaturalLanguage, pyobjc-framework-GameController, pyobjc-framework-SearchKit, pyobjc-framework-MetalKit, pyobjc-framework-DiscRecordingUI, pyobjc-framework-Network, pyobjc-framework-iTunesLibrary, pyobjc-framework-ScriptingBridge, pyobjc-framework-PencilKit, pyobjc-framework-CFNetwork, pyobjc-framework-ScreenSaver, pyobjc-framework-GameCenter, pyobjc-framework-Vision, pyobjc-framework-CoreWLAN, pyobjc-framework-SyncServices, pyobjc-framework-ColorSync, pyobjc-framework-CoreAudioKit, pyobjc-framework-DictionaryServices, pyobjc-framework-LatentSemanticMapping, pyobjc-framework-OSLog, pyobjc-framework-OSAKit, pyobjc-framework-ServiceManagement, pyobjc-framework-GameKit, pyobjc-framework-InstantMessage, pyobjc, pyttsx3
Successfully installed pyobjc-7.0 pyobjc-core-7.0 pyobjc-framework-AVFoundation-7.0 pyobjc-framework-AVKit-7.0 pyobjc-framework-Accounts-7.0 pyobjc-framework-AdSupport-7.0 pyobjc-framework-AddressBook-7.0 pyobjc-framework-AppleScriptKit-7.0 pyobjc-framework-AppleScriptObjC-7.0 pyobjc-framework-ApplicationServices-7.0 pyobjc-framework-AuthenticationServices-7.0 pyobjc-framework-AutomaticAssessmentConfiguration-7.0 pyobjc-framework-Automator-7.0 pyobjc-framework-BusinessChat-7.0 pyobjc-framework-CFNetwork-7.0 pyobjc-framework-CalendarStore-7.0 pyobjc-framework-CloudKit-7.0 pyobjc-framework-Cocoa-7.0 pyobjc-framework-Collaboration-7.0 pyobjc-framework-ColorSync-7.0 pyobjc-framework-Contacts-7.0 pyobjc-framework-ContactsUI-7.0 pyobjc-framework-CoreAudio-7.0 pyobjc-framework-CoreAudioKit-7.0 pyobjc-framework-CoreBluetooth-7.0 pyobjc-framework-CoreData-7.0 pyobjc-framework-CoreHaptics-7.0 pyobjc-framework-CoreLocation-7.0 pyobjc-framework-CoreMIDI-7.0 pyobjc-framework-CoreML-7.0 pyobjc-framework-CoreMedia-7.0 pyobjc-framework-CoreMediaIO-7.0 pyobjc-framework-CoreMotion-7.0 pyobjc-framework-CoreServices-7.0 pyobjc-framework-CoreSpotlight-7.0 pyobjc-framework-CoreText-7.0 pyobjc-framework-CoreWLAN-7.0 pyobjc-framework-CryptoTokenKit-7.0 pyobjc-framework-DVDPlayback-7.0 pyobjc-framework-DeviceCheck-7.0 pyobjc-framework-DictionaryServices-7.0 pyobjc-framework-DiscRecording-7.0 pyobjc-framework-DiscRecordingUI-7.0 pyobjc-framework-DiskArbitration-7.0 pyobjc-framework-EventKit-7.0 pyobjc-framework-ExceptionHandling-7.0 pyobjc-framework-ExecutionPolicy-7.0 pyobjc-framework-ExternalAccessory-7.0 pyobjc-framework-FSEvents-7.0 pyobjc-framework-FileProvider-7.0 pyobjc-framework-FileProviderUI-7.0 pyobjc-framework-FinderSync-7.0 pyobjc-framework-GameCenter-7.0 pyobjc-framework-GameController-7.0 pyobjc-framework-GameKit-7.0 pyobjc-framework-GameplayKit-7.0 pyobjc-framework-IMServicePlugIn-7.0 pyobjc-framework-IOSurface-7.0 pyobjc-framework-ImageCaptureCore-7.0 pyobjc-framework-InputMethodKit-7.0 pyobjc-framework-InstallerPlugins-7.0 pyobjc-framework-InstantMessage-7.0 pyobjc-framework-Intents-7.0 pyobjc-framework-LatentSemanticMapping-7.0 pyobjc-framework-LaunchServices-7.0 pyobjc-framework-LinkPresentation-7.0 pyobjc-framework-LocalAuthentication-7.0 pyobjc-framework-MapKit-7.0 pyobjc-framework-MediaAccessibility-7.0 pyobjc-framework-MediaLibrary-7.0 pyobjc-framework-MediaPlayer-7.0 pyobjc-framework-MediaToolbox-7.0 pyobjc-framework-Metal-7.0 pyobjc-framework-MetalKit-7.0 pyobjc-framework-MetalPerformanceShaders-7.0 pyobjc-framework-ModelIO-7.0 pyobjc-framework-MultipeerConnectivity-7.0 pyobjc-framework-NaturalLanguage-7.0 pyobjc-framework-NetFS-7.0 pyobjc-framework-Network-7.0 pyobjc-framework-NetworkExtension-7.0 pyobjc-framework-NotificationCenter-7.0 pyobjc-framework-OSAKit-7.0 pyobjc-framework-OSLog-7.0 pyobjc-framework-OpenDirectory-7.0 pyobjc-framework-PencilKit-7.0 pyobjc-framework-Photos-7.0 pyobjc-framework-PhotosUI-7.0 pyobjc-framework-PreferencePanes-7.0 pyobjc-framework-PushKit-7.0 pyobjc-framework-Quartz-7.0 pyobjc-framework-QuickLookThumbnailing-7.0 pyobjc-framework-SafariServices-7.0 pyobjc-framework-SceneKit-7.0 pyobjc-framework-ScreenSaver-7.0 pyobjc-framework-ScriptingBridge-7.0 pyobjc-framework-SearchKit-7.0 pyobjc-framework-Security-7.0 pyobjc-framework-SecurityFoundation-7.0 pyobjc-framework-SecurityInterface-7.0 pyobjc-framework-ServiceManagement-7.0 pyobjc-framework-Social-7.0 pyobjc-framework-SoundAnalysis-7.0 pyobjc-framework-Speech-7.0 pyobjc-framework-SpriteKit-7.0 pyobjc-framework-StoreKit-7.0 pyobjc-framework-SyncServices-7.0 pyobjc-framework-SystemConfiguration-7.0 pyobjc-framework-SystemExtensions-7.0 pyobjc-framework-UserNotifications-7.0 pyobjc-framework-VideoSubscriberAccount-7.0 pyobjc-framework-VideoToolbox-7.0 pyobjc-framework-Vision-7.

```
0 pyobjc-framework-WebKit-7.0 pyobjc-framework-iTunesLibrary-7.0 pyobjc-framework-libdisp
atch-7.0 pyttsx3-2.90
Note: you may need to restart the kernel to use updated packages.
```

In [9]:

```
pip install pyaudio
```

```
Requirement already satisfied: pyaudio in ./opt/anaconda3/lib/python3.8/site-packages (0.
2.11)
Note: you may need to restart the kernel to use updated packages.
```

In [10]:

```python
import speech_recognition as sr
import pyttsx3
```

In [11]:

```python
# Initialize the recognizer
r = sr.Recognizer()
```

In [13]:

```python
# Function to convert text to
# speech
def SpeakText(command):

    # Initialize the engine
    engine = pyttsx3.init()
    engine.say(command)
    engine.runAndWait()


# Loop infinitely for user to
# speak

while(1):

    # Exception handling to handle
    # exceptions at the runtime
    try:

        # use the microphone as source for input.
        with sr.Microphone() as source2:

            # wait for a second to let the recognizer
            # adjust the energy threshold based on
            # the surrounding noise level
            r.adjust_for_ambient_noise(source2, duration=0.2)

            #listens for the user's input
            audio2 = r.listen(source2)

            # Using ggogle to recognize audio
            MyText = r.recognize_google(audio2)
            MyText = MyText.lower()

            print("Did you say "+MyText)
            SpeakText(MyText)

    except sr.RequestError as e:
        print("Could not request results; {0}".format(e))

    except sr.UnknownValueError:
        print("unknown error occured")
```

```
Did you say hello my name is sahil

---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
~/opt/anaconda3/lib/python3.8/site-packages/pyttsx3/__init__.py in init(driverName, debug
```

```
      )
     19         try:
---> 20             eng = _activeEngines[driverName]
     21         except KeyError:

~/opt/anaconda3/lib/python3.8/weakref.py in __getitem__(self, key)
    130                 self._commit_removals()
--> 131             o = self.data[key]()
    132             if o is None:

KeyError: None

During handling of the above exception, another exception occurred:

NotImplementedError                       Traceback (most recent call last)
<ipython-input-13-0d3dc5020d02> in <module>
     34
     35             print("Did you say "+MyText)
---> 36             SpeakText(MyText)
     37
     38         except sr.RequestError as e:

<ipython-input-13-0d3dc5020d02> in SpeakText(command)
      4
      5     # Initialize the engine
----> 6     engine = pyttsx3.init()
      7     engine.say(command)
      8     engine.runAndWait()

~/opt/anaconda3/lib/python3.8/site-packages/pyttsx3/__init__.py in init(driverName, debug
)
     20             eng = _activeEngines[driverName]
     21         except KeyError:
---> 22             eng = Engine(driverName, debug)
     23             _activeEngines[driverName] = eng
     24         return eng

~/opt/anaconda3/lib/python3.8/site-packages/pyttsx3/engine.py in __init__(self, driverNam
e, debug)
     28         @type debug: bool
     29         """
---> 30         self.proxy = driver.DriverProxy(weakref.proxy(self), driverName, debug)
     31         # initialize other vars
     32         self._connects = {}

~/opt/anaconda3/lib/python3.8/site-packages/pyttsx3/driver.py in __init__(self, engine, d
riverName, debug)
     48         # import driver module
     49         name = 'pyttsx3.drivers.%s' % driverName
---> 50         self._module = importlib.import_module(name)
     51         # build driver instance
     52         self._driver = self._module.buildDriver(weakref.proxy(self))

~/opt/anaconda3/lib/python3.8/importlib/__init__.py in import_module(name, package)
    125                 break
    126             level += 1
--> 127     return _bootstrap._gcd_import(name[level:], package, level)
    128
    129

~/opt/anaconda3/lib/python3.8/importlib/_bootstrap.py in _gcd_import(name, package, level
)

~/opt/anaconda3/lib/python3.8/importlib/_bootstrap.py in _find_and_load(name, import_)

~/opt/anaconda3/lib/python3.8/importlib/_bootstrap.py in _find_and_load_unlocked(name, im
port_)

~/opt/anaconda3/lib/python3.8/importlib/_bootstrap.py in _load_unlocked(spec)

~/opt/anaconda3/lib/python3.8/importlib/_bootstrap_external.py in exec_module(self, modul
e)
```

```
~/opt/anaconda3/lib/python3.8/importlib/_bootstrap.py in _call_with_frames_removed(f, *ar
gs, **kwds)

~/opt/anaconda3/lib/python3.8/site-packages/pyttsx3/drivers/nsss.py in <module>
      1
----> 2 from Foundation import *
      3 from AppKit import NSSpeechSynthesizer
      4 from PyObjCTools import AppHelper
      5 from ..voice import Voice

~/opt/anaconda3/lib/python3.8/site-packages/Foundation/__init__.py in <module>
      7 import sys
      8
----> 9 import CoreFoundation
     10 import Foundation._Foundation
     11 import objc

~/opt/anaconda3/lib/python3.8/site-packages/CoreFoundation/__init__.py in <module>
     14     "CoreFoundation",
     15     "com.apple.CoreFoundation",
---> 16     objc.pathForFramework("/System/Library/Frameworks/CoreFoundation.framework"),
     17     _metadata.__dict__,
     18     _inline_list_,

~/opt/anaconda3/lib/python3.8/site-packages/objc/_dyld.py in pathForFramework(path)
    146
    147 def pathForFramework(path):
--> 148     fpath, name, version = infoForFramework(dyld_find(path))
    149     return os.path.join(fpath, name + ".framework")

~/opt/anaconda3/lib/python3.8/site-packages/objc/_dyld.py in dyld_find(filename)
    140     if res:
    141         framework_loc, framework_name, version = res
--> 142         return dyld_framework(filename, framework_name, version)
    143     else:
    144         return dyld_library(filename, os.path.basename(filename))

~/opt/anaconda3/lib/python3.8/site-packages/objc/_dyld.py in dyld_framework(filename, fra
mework_name, version)
     99     for f in inject_suffixes(_search()):
    100         if _dyld_shared_cache_contains_path is not None:
--> 101             if _dyld_shared_cache_contains_path(f):
    102                 return f
    103

NotImplementedError: _dyld_shared_cache_contains_path not available


In [ ]:
```