

SPRINT DELIVERY 3

PROJECT NAME	Personal assistance for senior citizens who are self-reliant
TEAM ID	PNT2022TMID11032

ESTABLISHING THE TEXT-TO-SPEECH SERVICE

INSTALLATION OF WATSON VERSION

CODE

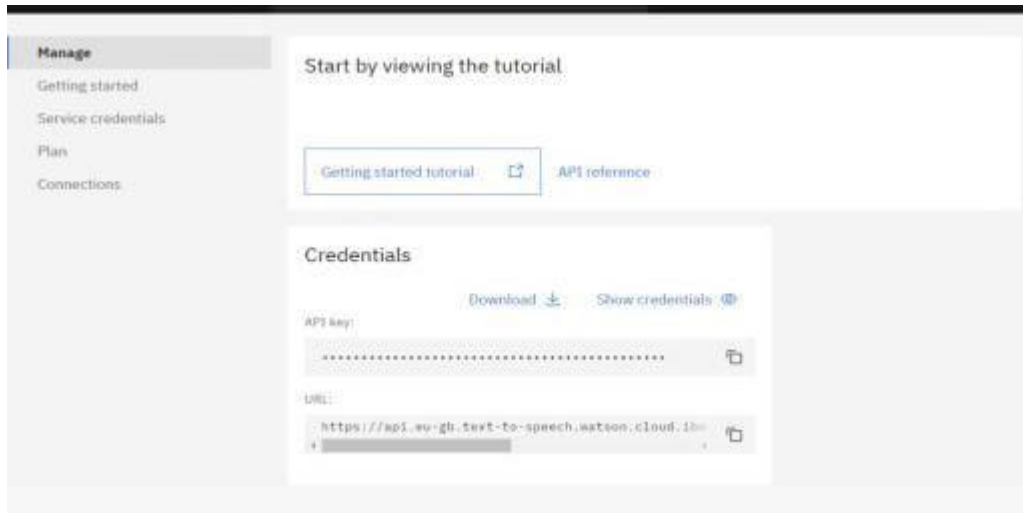
```
pip install --upgrade "ibm-watson>=6.1.0"
```

RESULT

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lavanya>pip install --upgrade "ibm-watson>=6.1.0"
Collecting ibm-watson<=6.1.0
  Downloading ibm-watson-6.1.0.tar.gz (373 kB)
    | 373 kB 273 kB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting ibm-cloud-sdk-core<=3.*>=3.3.6
  Downloading ibm_cloud_sdk_core-3.16.0-py3-none-any.whl (83 kB)
    | 83 kB 394 kB/s
Collecting python-dateutil<=2.5.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    | 247 kB 726 kB/s
Collecting websocket-client<=1.1.0
  Downloading websocket_client-1.1.0-py2.py3-none-any.whl (68 kB)
    | 68 kB 620 kB/s
Collecting requests<3.0.*>=2.0
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    | 62 kB 340 kB/s
Collecting PyJWT<3.0.0.*>=2.4.0
  Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)
Collecting urllib3<2.0.0.*>=1.26.0
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
    | 140 kB 467 kB/s
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting charset-normalizer<3.*>=2
  Downloading charset-normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting idna<4.*>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
    | 61 kB 770 kB/s
Collecting certifi<=2017.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (161 kB)
    | 161 kB 819 kB/s
Building wheels for collected packages: ibm-watson
  Building wheel for ibm-watson (pyproject.toml) ... done
  Created wheel for ibm-watson: filename=ibm_watson-6.1.0-py3-none-any.whl size=370809 sha256=305006627ee0b9ea8dee55bbb0ced8e6023705145f876dc1f32f8dc83016bf3
  Stored in directory: c:\users\lavanya\appdata\local\pip\cache\wheels\88\69\3e\30b078dc358148c52ed76dfa50ab1460f44f440306a8069
Successfully built ibm-watson
Installing collected packages: urllib3, six, idna, charset-normalizer, certifi, requests, python-dateutil, PyJWT, websocket-client, ibm-cloud-sdk-core, ibm-watson
Successfully installed PyJWT-2.6.0 certifi-2022.9.24 charset-normalizer-2.1.1 ibm-cloud-sdk-core-3.16.0 ibm-watson-6.1.0 idna-3.4 python-dateutil-2.8.2 requests-2.28.1 six-1.16.0 urllib3-1.26.12 websocket-client-1.1.0
WARNING: You are using pip version 21.3.1; however, version 22.3.1 is available.
You should consider upgrading via the 'c:\users\lavanya\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.
```

COPYING CREDENTIALS FOR API AND URL



PROGRAM FOR ACCESSING APIs OF TEXT-TO-SERVICE

```
from ibm_watson import TextToSpeechV1
```

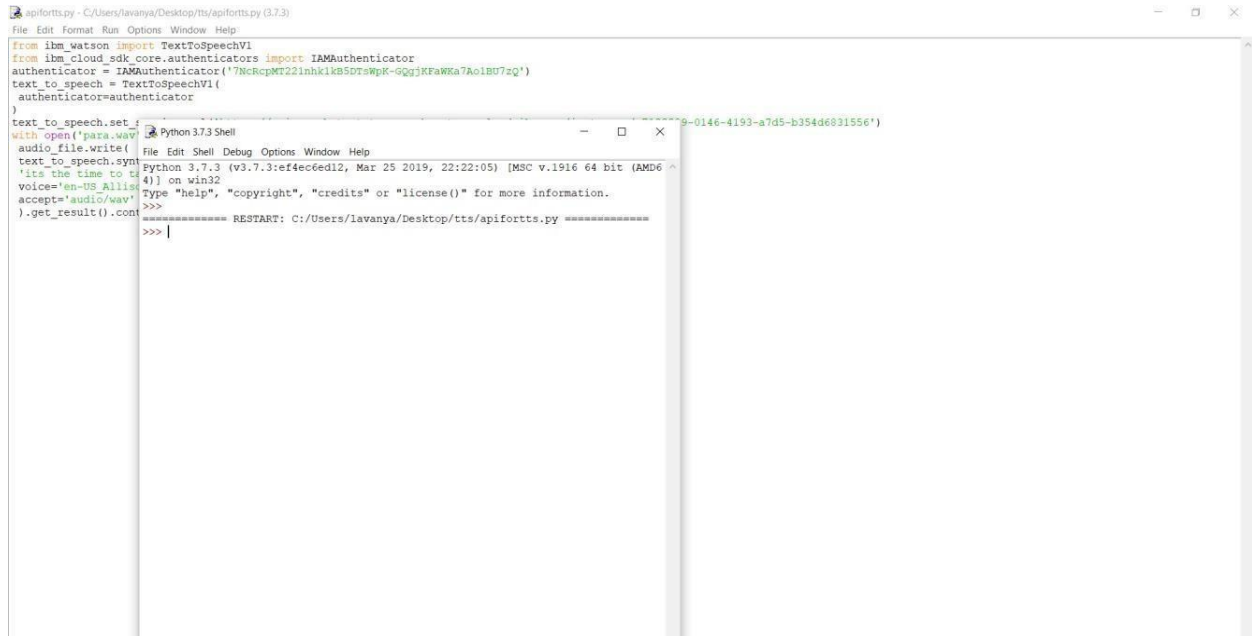
```
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator  
authenticator = IAMAuthenticator('7NcRcpMT221nhk1kB5DTsWpK-  
GQgjKFkWka7Ao1BU7zQ')
```

```
text_to_speech = TextToSpeechV1(authenticator=authenticator)
```

```
text_to_speech.set_service_url('https://api.eu-gb.text-to-  
speech.watson.cloud.ibm.com/instances/e7133289-0146-4193-a7d5-  
b354d6831556')
```

```
with open('para.wav', 'wb') as audio_file:  
audio_file.write(text_to_speech.synthesize('It's the time to take  
paracetomal', voice='en-  
US_AllisonV3Voice', accept='audio/wav').get_result().content)
```

EXECUTION AND RUN



```
apifortts.py - C:/Users/lavanya/Desktop/tts/apifortts.py (3.7.3)
File Edit Format Run Options Window Help
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator('7NcRcpMT221nhkik2507sApK-6QqjKFaWka7Ao1BU7zQ')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)
text_to_speech.set_api_key('9-0146-4193-a7d5-b354d6831556')
with open('para.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'its the time to take a break',
            voice='en-US_AllisonV1',
            accept='audio/wav'
        ).get_result().content
    )
```

Python 3.7.3 Shell

Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/lavanya/Desktop/tts/apifortts.py =====>>> |