

SPRINT DELIVERY 1

ESTABLISHING THE TEXT-TO-SPEECH SERVICE

1) INSTALLATION OF WATSON VERSION:

Code:

Pip install --upgrade "ibm-watson>=6.1.0"

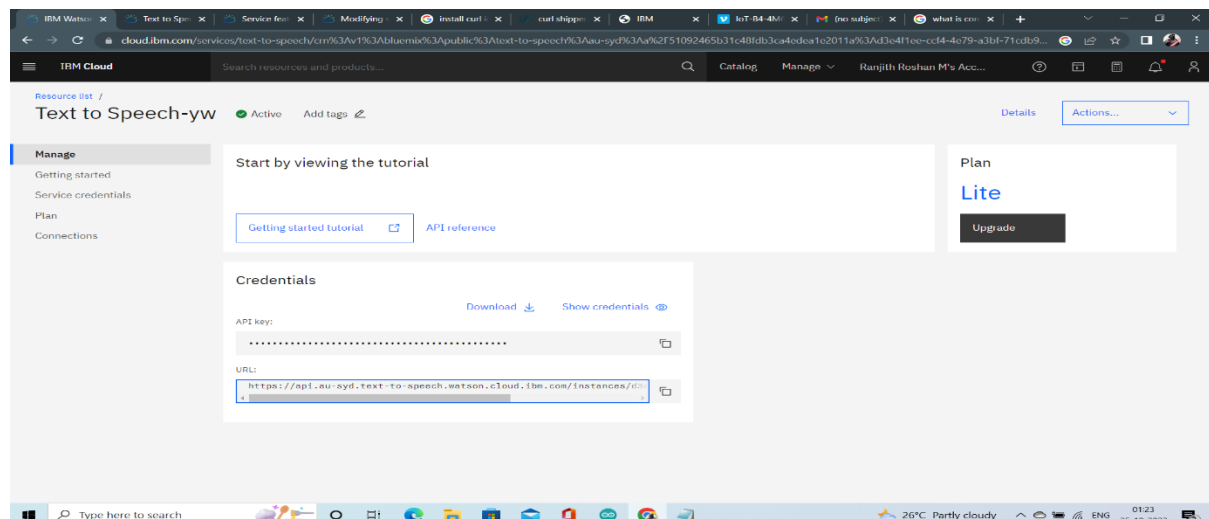
Result:

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

C:\Users\sibis>pip install --upgrade "ibm-watson>=6.1.0"
Requirement already satisfied: ibm-watson>=6.1.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (6.1.0)
Requirement already satisfied: ibm-cloud-sdk-core==3.*>=3.3.6 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-watson>=6.1.0) (3.16.0)
Requirement already satisfied: requests<3.0,>=2.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement already satisfied: python-dateutil>=2.5.3 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-watson>=6.1.0) (2.8.2)
Requirement already satisfied: websocket-client==1.1.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-watson>=6.1.0) (1.1.0)
Requirement already satisfied: PyJWT<3.0.0,>=2.4.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-cloud-sdk-core==3.*>=3.3.6->ibm-watson>=6.1.0) (2.6.0)
Requirement already satisfied: urllib3<2.0.0,>=1.26.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-cloud-sdk-core==3.*>=3.3.6->ibm-watson>=6.1.0) (1.26.12)
Requirement already satisfied: six>=1.5 in c:\users\sibis\appdata\roaming\python\python39\lib\site-packages (from python-dateutil>=2.5.3->ibm-watson>=6.1.0) (1.16.0)
Requirement already satisfied: idna<4,>=2.5 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (3.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.9.24)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)

C:\Users\sibis>
```

2) COPYING CREDENTIALS FOR API AND URL:



3) PROGRAM FOR ACCESSING APIs OF TTS SERVICE:

```
from ibm_watson import TextToSpeechV1

from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('1SuMpBioLx9PuvKX-wnvMh3Z3lQbUKcXZERWleXdY9j')

text_to_speech = TextToSpeechV1(

    authenticator=authenticator

)

text_to_speech.set_service_url('https://api.au-syd.text-to-speech.watson.cloud.ibm.com/instances/d3e4f1ee-ccf4-4e79-a3bf-71cdb9fdf9e8')

with open('hello_world.wav', 'wb') as audio_file:

    audio_file.write(

        text_to_speech.synthesize(

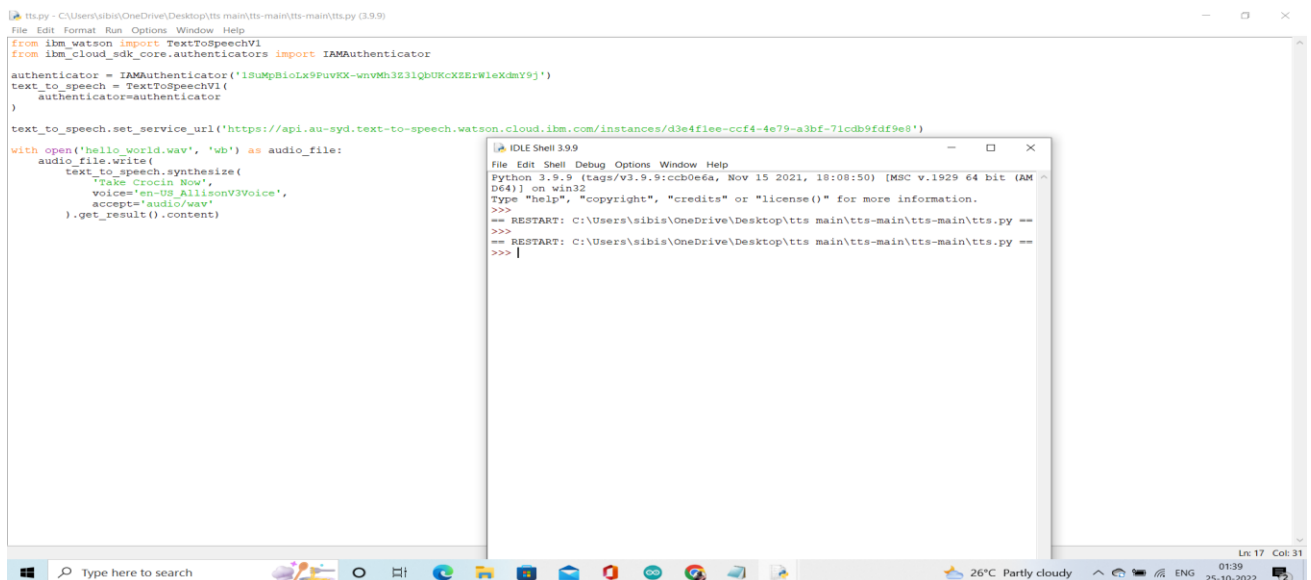
            'Take Crocin Now',

            voice='en-US_AllisonV3Voice',

            accept='audio/wav'

        ).get_result().content)
```

Execution and Run



```
tts.py - C:\Users\sibis\OneDrive\Desktop\tts main\tts-main\tts-main\tts.py (3.9.9)
File Edit Format Run Options Window Help
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator('1SuMpBioLx9PuvKX-wnvMh3Z3lQbUKcXZERWleXdY9j')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)
text_to_speech.set_service_url('https://api.au-syd.text-to-speech.watson.cloud.ibm.com/instances/d3e4f1ee-ccf4-4e79-a3bf-71cdb9fdf9e8')
with open('hello_world.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'Take Crocin Now',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content)

IDLE Shell 3.9
File Edit Shell Debug Options Window Help
Python 3.9.9 (tags/v3.9.9:ccb0e6a, Nov 15 2021, 18:08:50) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:\Users\sibis\OneDrive\Desktop\tts main\tts-main\tts-main\tts.py ==
>>>
== RESTART: C:\Users\sibis\OneDrive\Desktop\tts main\tts-main\tts-main\tts.py ==
>>> |
```

4) RESULT:

Video:

https://drive.google.com/file/d/17ioFSvMHJxCRIaE19kCw_mGMGylo7CNz/view?usp=drivesdk

