

SPRINT DELIVERY 3

TEAM ID: PNT2022TMID19593

ESTABLISHING THE TEXT-TO-SPEECH SERVICE

1)INSTALLATION OF WATSON VERSION:

CODE:

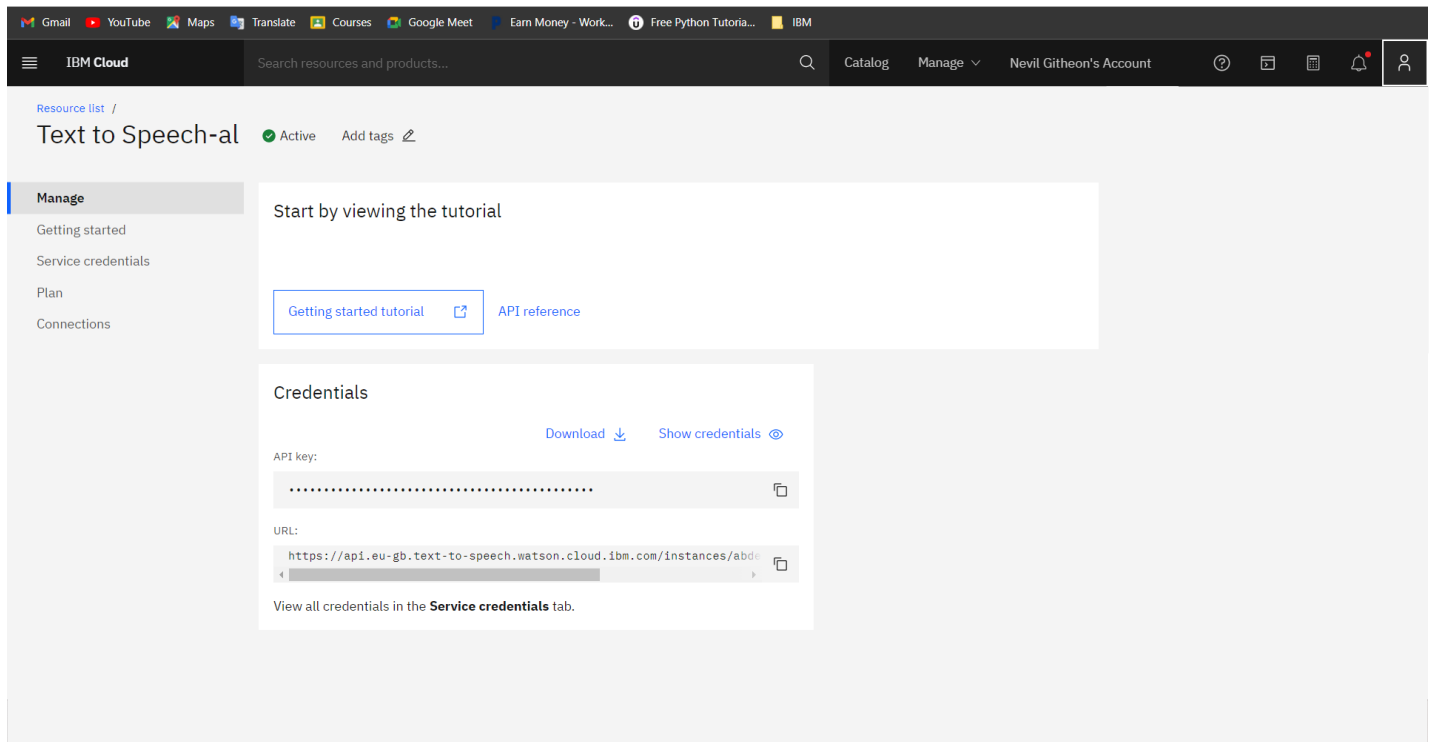
```
pip install --upgrade "ibm-watson>=6.1.0"
```

RESULT:

```
Command Prompt
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nevil>pip install --upgrade "ibm-watson>=6.1.0"
Collecting ibm-watson>=6.1.0
  Downloading ibm-watson-6.1.0.tar.gz (373 kB)
    373.5/373.5 kB 2.9 MB/s eta 0:00:00
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting requests<3.0,>=2.0
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    62.8/62.8 kB 674.4 kB/s eta 0:00:00
Collecting python-dateutil>=2.5.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    247.7/247.7 kB 3.8 MB/s eta 0:00:00
Collecting websocket-client==1.1.0
  Downloading websocket_client-1.1.0-py2.py3-none-any.whl (68 kB)
    68.7/68.7 kB 3.7 MB/s eta 0:00:00
Collecting ibm-cloud-sdk-core==3.*,>=3.3.6
  Downloading ibm_cloud_sdk_core-3.16.0-py3-none-any.whl (83 kB)
    83.7/83.7 kB 2.4 MB/s eta 0:00:00
Collecting urllib3<2.0.0,>=1.26.0
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
    140.4/140.4 kB 4.2 MB/s eta 0:00:00
Collecting PyJWT<3.0.0,>=2.4.0
  Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)
Collecting six>=1.5
  Downloading 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)
    61.5/61.5 kB 3.2 MB/s eta 0:00:00
Collecting certifi>=2017.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (161 kB)
    161.1/161.1 kB 2.4 MB/s eta 0:00:00
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=370808 sha256=9a1d1ea295ad0ebf975ed3de9e982cece80c71e2f0d6ba78e15e1c7b5b76c8
```

2) COPYING CREDENTIALS FOR API AND URL:



3) PROGRAM FOR ACESSING APIs OF TTS 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(
            'its the time to take paracetomal',
```

```
voice='en-US_AllisonV3Voice',  
accept='audio/wav'  
).get_result().content)
```