

Sprint 4	<b>ESTABLISHING THE TEXT TO SPEECH SERVICES</b>
Team ID	PNT2022TMID48112
Project Name	Project – Personal Assistance for Seniors Who Are Self-Reliant

- **INSTALLATION OF WATSON**

**VERSION: Code:**

Pip install –upgrade “ibm-watson>=6.1.0”

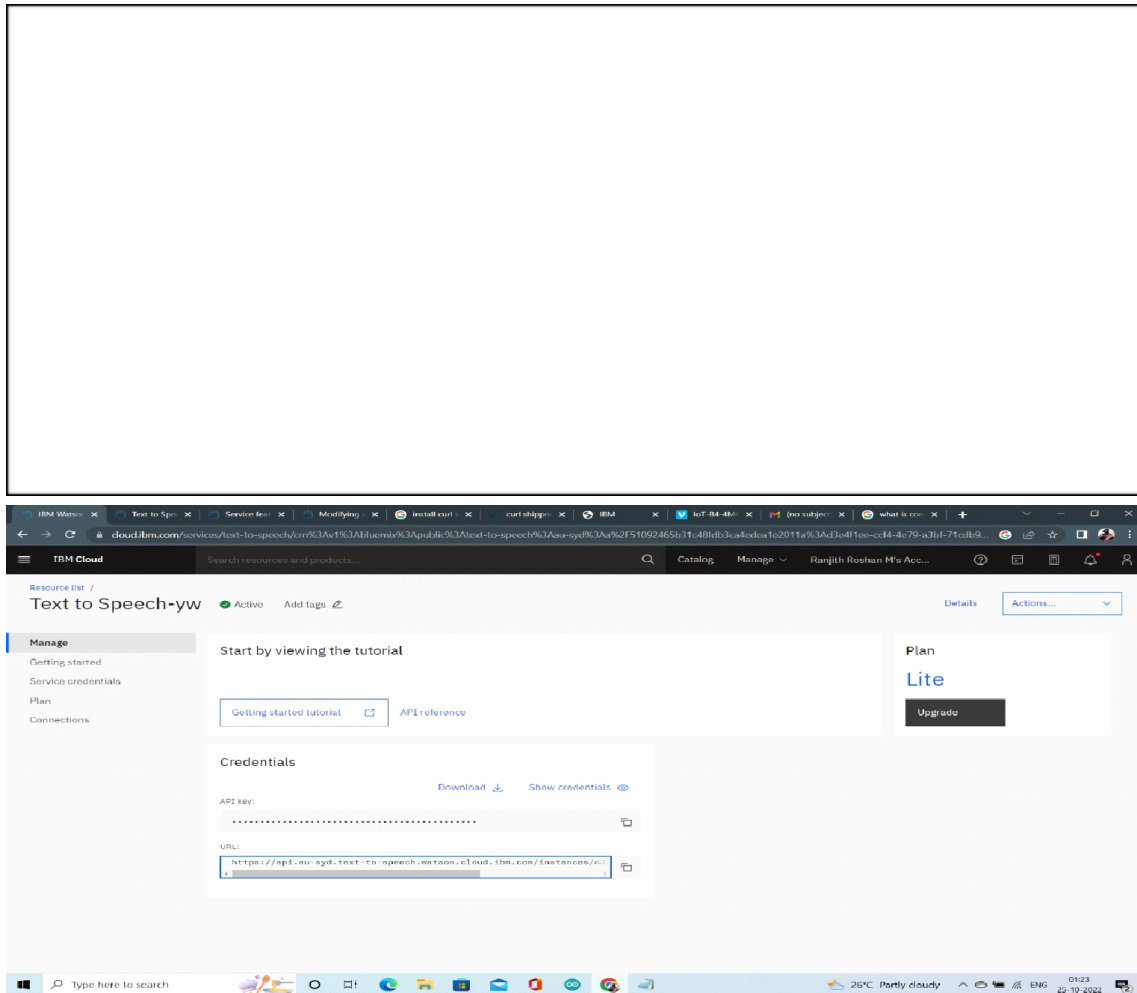
**Result:**

```
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.*,>=3.1.0 in c:\users\sibis\appdata\local\programs\python\python39\lib\site-packages (from ibm-watson>=6.1.0) (3.10.0)
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) (2.18.1)
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>=1.0 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.*,>=3.1.0->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.*,>=3.1.0->ibm-watson>=6.1.0) (1.26.12)
Requirement already satisfied: six>=1.5 in c:\users\sibis\appdata\local\programs\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>
```

- **COPYING CREDENTIALS FOR API AND URL:**



- **PROGRAM FOR ACCESSING APIs OF TTS SERVICE:**

```
from ibm_watson import TextToSpeechV1
```

```
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
```

```
authenticator =  
IAMAuthenticator('1SuMpBioLx9PuvKX-  
wnvMh3Z3lQbUKcXZErWleXdmY9j')
```

```
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-71cdb9f  
df9e8')
```

with open('hello\_world.wav', 'wb') as

audio\_file: audio\_file.write(

text\_to\_speech.synth

esize( 'Take

Crocini Now',

voice='en-US\_AllisonV3Voice',

accept='audio/wav'

).get\_result().content)

## Execution and Run

