

## 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 10.0.22000.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Srisakthi>pip install --upgrade "ibm-watson>=6.1.0"
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: ibm-watson>=6.1.0 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (6.1.0)
Requirement already satisfied: requests<3.0,>=2.0 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement already satisfied: python-dateutil>=2.5.3 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from ibm-watson>=6.1.0) (2.8.2)
Requirement already satisfied: websocket-client==1.1.0 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from ibm-watson>=6.1.0) (1.1.0)
Requirement already satisfied: ibm-cloud-sdk-core==3.*,>=3.3.6 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from ibm-watson>=6.1.0) (3.16.0)
Requirement already satisfied: ibm-cloud-sdk-core==3.*,>=3.3.6->ibm-watson>=6.1.0 (1.26.12)
Requirement already satisfied: PyJWT<3.0.0,>=2.4.0 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from ibm-cloud-sdk-core==3.*,>=3.3.6->ibm-watson>=6.1.0) (2.6.0)
Requirement already satisfied: six>=1.5 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from python-dateutil>=2.5.3->ibm-watson>=6.1.0) (1.16.0)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\srisakthi\appdata\roaming\python\python311\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\srisakthi\appdata\roaming\python\python311\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.9.24)

C:\Users\Srisakthi>
```

### 2) INSTALLATION OF GTTS

#### CODE:

```
pip install gtts
```

#### RESULT:

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Srisakthi>python --version
Python 3.11.0

C:\Users\Srisakthi>pip --version
pip 22.3 from C:\Program Files\Python311\Lib\site-packages\pip (python 3.11)

C:\Users\Srisakthi>pip install gtts
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: gtts in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (2.2.4)
Requirement already satisfied: six in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from gtts) (1.16.0)
Requirement already satisfied: click in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from gtts) (8.1.3)
Requirement already satisfied: requests in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from gtts) (2.28.1)
Requirement already satisfied: colorama in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from click->gtts) (0.4.6)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from requests->gtts) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from requests->gtts) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from requests->gtts) (1.26.12)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\srisakthi\appdata\roaming\python\python311\site-packages (from requests->gtts) (2022.9.24)

C:\Users\Srisakthi>
```

### 3) PROGRAM FOR TEXT TO SPEECH CONVERSION:

#### CODE:

```
from gtts import gTTS
import os

fh=open("test.txt","r")

myText=fh.read().replace("\n", " ")

language='en'

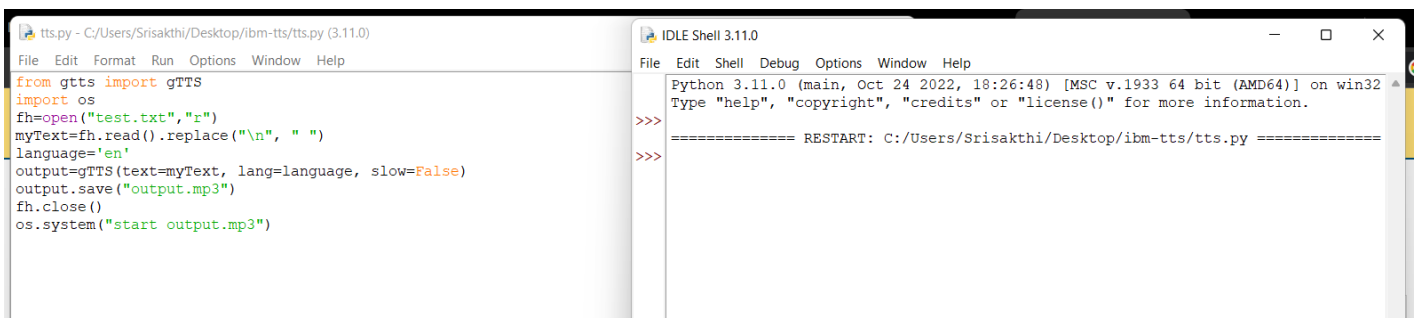
output=gTTS(text=myText, lang=language, slow=False)

output.save("output.mp3")

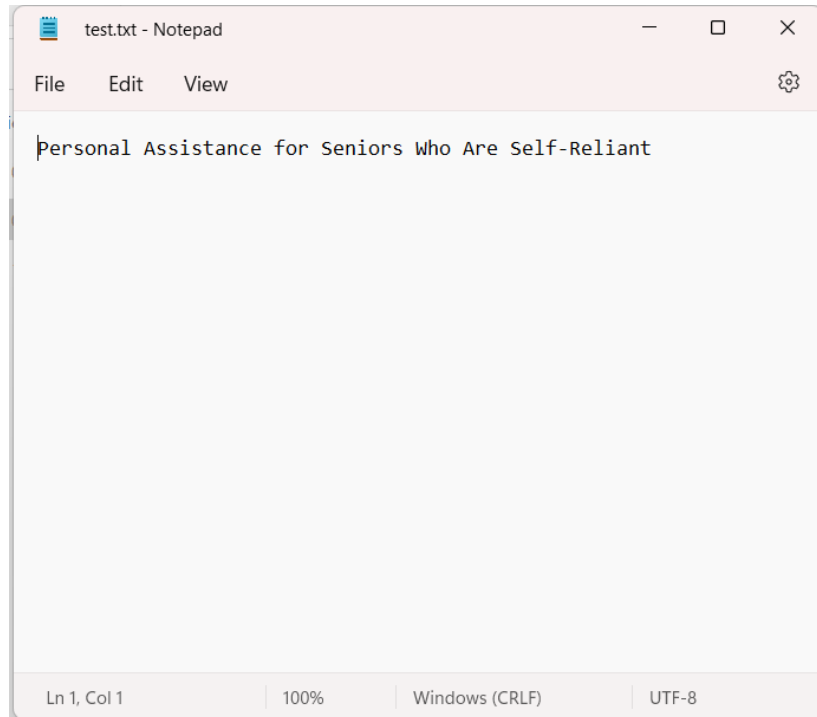
fh.close()

os.system("start output.mp3")
```

### 4) PROGRAM EXECUTION:



## 5) TEXT FILE:



## 6) RESULT:

### VIDEO:

[https://drive.google.com/file/d/1rvWVo7NRYgLNMxqtW\\_3pQ2yF953R2O3d/view?usp=drivesdk](https://drive.google.com/file/d/1rvWVo7NRYgLNMxqtW_3pQ2yF953R2O3d/view?usp=drivesdk)