SPeech Translation using SDK

```
In [6]: pip install azure-cognitiveservices-speech
    Requirement already satisfied: azure-cognitiveservices-speech in d:\python\lib\site-packages (1.14.0)
    Note: you may need to restart the kernel to use updated packages.

In [1]: import os
    import azure.cognitiveservices.speech as speechsdk

In [3]: speech_key= '03ba21efd1ee4cda8294389a5f0e03ff'
    service_region= 'centralindia'
```

English to German(using microphone)

```
In [6]: from language, to languages = 'en-US', 'de'
        def translate speech to text():
            #To call the Speech service using the Speech SDK, SpeechTranslationConfig is initialized
            translation config = speechsdk.translation.SpeechTranslationConfig(
                    subscription=speech key, region=service region)
             # Source (input) Language
            translation_config.speech_recognition_language = from_language
            # Destination(Output) Language
            translation config.add target language(to language)
            # Specifying to use microphone(default)
            recognizer = speechsdk.translation.TranslationRecognizer(
                    translation config=translation config)
            print('Say something...')
            result = recognizer.recognize once()
            print(get result text(reason=result.reason, result=result))
        def get result text(reason, result):
            reason format = {
                speechsdk.ResultReason.TranslatedSpeech:
                    f'RECOGNIZED "{from language}": {result.text}\n' +
                    f'TRANSLATED into "{to language}": {result.translations[to language]}',
                speechsdk.ResultReason.RecognizedSpeech: f'Recognized: "{result.text}"',
                speechsdk.ResultReason.NoMatch: f'No speech could be recognized: {result.no match details}',
                speechsdk.ResultReason.Canceled: f'Speech Recognition canceled: {result.cancellation details}'
            return reason format.get(reason, 'Unable to recognize speech')
        translate speech to text()
```

Say something...

RECOGNIZED "en-US": Hi, how are you? Haven't just dizzy Marvel are they belong to only single person?

TRANSLATED into "de"": Hallo, wie geht es dir? Sind nicht nur schwindelerregendes Marvel nur eine Einzelperson?

English to German(using audio file)

```
In [11]: from language, to languages = 'en-US', 'de'
         def translate speech to text():
             #To call the Speech service using the Speech SDK, SpeechTranslationConfig is initialized
             translation_config = speechsdk.translation.SpeechTranslationConfig(
                     subscription=speech key, region=service region)
              # Source (input) Language
             translation config.speech recognition language = from language
             # Destination(Output) Language
             translation config.add target language(to language)
             # Specifying to use audio file(.wav file)
             audio config = speechsdk.audio.AudioConfig(filename=r"C:\Users\Jaswanth Reddy\Downloads\empty 1c.wav")
             recognizer = speechsdk.translation.TranslationRecognizer(
                     translation config=translation config,audio config=audio config)
             print('Say something...')
             result = recognizer.recognize once()
             print(get result text(reason=result.reason, result=result))
         def get result text(reason, result):
             reason format = {
                 speechsdk.ResultReason.TranslatedSpeech:
                     f'RECOGNIZED "{from language}": {result.text}\n' +
                     f'TRANSLATED into "{to language}": {result.translations[to language]}',
                 speechsdk.ResultReason.RecognizedSpeech: f'Recognized: "{result.text}"',
                 speechsdk.ResultReason.NoMatch: f'No speech could be recognized: {result.no match details}',
                 speechsdk.ResultReason.Canceled: f'Speech Recognition canceled: {result.cancellation details}'
             return reason format.get(reason, 'Unable to recognize speech')
         translate speech to text()
```

Say something...
RECOGNIZED "en-US": Hi just month ready. How are you and welcome to text to speech using Microsoft Azure.
TRANSLATED into "de"": Hallo nur Monat bereit. Wie können Sie und willkommen zu Text zu Sprache mit Microsoft Azure.

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In [ ]:
```