```
!pip install SpeechRecognition
```

```
Requirement already satisfied: SpeechRecognition in /usr/local/lib/python3.11/dist-packages (3.14.3)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from SpeechRecognition) (4.13.2)
```

```
import speech_recognition as sr
import re
```

```
from google.colab import files
uploaded = files.upload()
```

```
Choose Files No file chosen  Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving speech.mp3 to speech.mp3
```

```
!pip install speechrecognition pydub
```

```
Requirement already satisfied: speechrecognition in /usr/local/lib/python3.11/dist-packages (3.14.3)
Collecting pydub
  Downloading pydub-0.25.1-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from speechrecognition) (4.13.2)
Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Installing collected packages: pydub
Successfully installed pydub-0.25.1
```

```
from pydub import AudioSegment
mp3_file="/content/speech.mp3"
wav_file="/content/speech.wav"
audio=AudioSegment.from_mp3(mp3_file)
audio.export(wav_file,format="wav")
```

```
<_io.BufferedRandom name='/content/speech.wav'>
```

```
r = sr.Recognizer()
with sr.AudioFile('/content/speech.wav') as source:
    audio = r.record(source)
    try:
        text = r.recognize_google(audio)
        print("You said:", text)
    except sr.UnknownValueError:
        print("Could not understand audio.")
```

```
You said: what is 5 + 3
```

```
import re

def solve_math_expression(text):
    text = text.lower()


    text = text.replace("plus", "+").replace("minus", "-")
    text = text.replace("times", "*").replace("multiplied by", "*")
    text = text.replace("divided by", "/").replace("over", "/")


    text = re.sub(r'what is|calculate|please|equals|=', '', text).strip()

    print("Expression to calculate:", text)

    try:
        result = eval(text)
        return result
    except Exception as e:
        return f"Could not evaluate expression: {e}"


recognized_text = "what is 5 plus 3"
```

```
result = solve_math_expression(recognized_text)
print("Result:", result)
```

```
Expression to calculate: 5 + 3
Result: 8
```

Start coding or generate with AI.