Generate text from a video file using python

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```python
[1]: # import os
     # %pip install ffmpeg
     # %pip install SpeechRecognition
     # %pip install moviepy
```

```python
[2]: import speech_recognition as sr
     import moviepy.editor as mp
     from moviepy.video.io.ffmpeg_tools import ffmpeg_extract_subclip
```

```python
[3]: num_seconds_video= 6*60
     print("The video is {} seconds".format(num_seconds_video))
     l=list(range(0,num_seconds_video+1,60))
     print(l)
```

```
The video is 360 seconds
[0, 60, 120, 180, 240, 300, 360]
```

```python
[4]: diz={}
     for i in range(len(l)-1):
         ffmpeg_extract_subclip("video_file1.mp4", l[i]-2*(l[i]!=0), l[i+1],␣
      ↪targetname="chunks/cut{}.mp4".format(i+1))
         clip = mp.VideoFileClip(r"chunks/cut{}.mp4".format(i+1))
         clip.audio.write_audiofile(r"converted/converted{}.wav".format(i+1))
         r = sr.Recognizer()
         audio = sr.AudioFile("converted/converted{}.wav".format(i+1))
         with audio as source:
           r.adjust_for_ambient_noise(source)
           audio_file = r.record(source)
         result = r.recognize_google(audio_file)
         diz['chunk{}'.format(i+1)]=result
```

```
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted1.wav
```

```
MoviePy - Done.
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted2.wav


MoviePy - Done.
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted3.wav


MoviePy - Done.
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted4.wav


MoviePy - Done.
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted5.wav


MoviePy - Done.
Moviepy - Running:
>>> "+ " ".join(cmd)
Moviepy - Command successful
MoviePy - Writing audio in converted/converted6.wav


MoviePy - Done.
```

```python
[5]: l_chunks=[diz['chunk{}'.format(i+1)] for i in range(len(diz))]
     text='\n'.join(l_chunks)
```

```python
[6]: with open('OutPut_Speech.txt',mode ='w') as file:
         file.write("OutPut_Speech:")
         file.write("\n")
         file.write(text)
```

```python
[7]: f = open('OutPut_Speech.txt', 'r')
     file_contents = f.read()
```

```
print(file_contents)
```

OutPut_Speech:
gun in anger NZ Shane I didn't fail the test I just found 100 ways to do it
wrong wife's biggest tragedy is that we get old too soon and Wise too late there
are three faithful friends and his wife and old dark and ready money never leave
till tomorrow that would you can do today time as money well done is better than
well said no games without pains
one today is worth two tomorrow's laziness travel so slowly that poverty soon
overtakes him rather go to bed without dinner then to rise and death at 20 years
of age the will reigns at 32 width and then 40 the judgement to succeed jumpers
quickly at opportunities as you do at conclusions was time is never found again
an investment in knowledge pays the best interest the best interest the best
interest the best interest the best interest the best interest the best interest
the best interest
where there is marriage Without Love there will be love without marriage haste
makes waste from an empty says person to his head no one can take it from him if
two of them are dead many people died 25 and are the buried in till they are 75
never ruin an apology with an excuse live down with dogs shall rise up with
fleas
dust valve love life then do not Squander time but that's the stuff life is made
of educate your children to self control do they have in a folding passion and
Prejudice and evil tendencies subject to when operating reasoning will and you
have done much to abolish misery from their future and crimes from Society keep
your eyes Wide Open before marriage have shut afterwards we do not stop playing
because we grow old we grow old because we stop playing as if you were to LIVE
1000 10 years in
play as if you were to die tomorrow contentment makes poor man rich discontents
makes Richmond or beware of little expenses a small leak will sink a great ship
you'll find the key to success under the alarm clock by snows that he is ugly so
he puts on a mask having them poor is no shame but being ashamed of it is if you
would know the value of money going to try to borrow some
either displays too often his wife and his wallet is in danger of having both of
them borrowed 4th is the best pillow the discontented man finds no easy chair to
find out a girl's faults prayzah to her girlfriends love your enemies for they
tell you your faults I would know how fast does cedars in there long though
shall sell-by necessities you may delay but time will not which school did you
like them or did you like them or did you like them or did you like them or did
you like them or did you like them

```
[ ]:
```