# Creating Audio book by using Python Programing Language.

Hello every body welcome back to this python project.

In this python project we create an audio book program by using python.

This python project is all about converting any PDF Book to Audio Book.

I think you may know about what are audio books, and the use of them.

So, this project is writing a python program which helps us to convert books to Audio files.

Ok, to start this python project

First you need to select Your favorite python IDE

For me I use PyCharm python IDE.

And also, I recommend you to use PyCharm, for more simplicity.

Ok, now I open PyCharm and start coding by creating a new python file.

Now I am in PyCharm home page and

I create a new file

For that I click this at the top and click new

After that I select this python file.

Then it asks me to give the python file name

So, I give the name

Audio book

I give this name for my file

You can give any name you want for your python file.

After that when I hit enter

It creates a blank new page like this

Ok, now I can start this audio book python project by importing important python modules.

For this project I use 2 important python modules

The first one is,

PyPDF2, I use this python module to read and extract the pdf files as text document. So, using this pyPDF2 python module is important for this Creating audio book project.

Ok,

The 2nd important python module I use for this python project is pyttsx3

I use this pyttsx3 python module for converting texts to speech.

The main use of this pyttsx3 python module is converting any text which is extracted from pdf to speech, so I use this python module to convert books to Audio book.

Ok, both PypDF2 and pyttsx3 python modules are not built-in modules for that you need to install them to use in this python project.

For that

To install both of them

You can use terminal section at the bottom of the PyCharm page.

You can use this terminal section to install both pypdf2 and pyttsx3 python modules.

Ok, when you click this terminal

It opens your python file path, after that you can install, those modules by writing

Pip install command

To install PyPDF2

You write

Pip install PyPDF2 and hit enter it starts downloading and install it automatically to your python project,

Like that,

To install pyttsx3 python module, you need to write

Pip install pyttsx3

And hit enter to download and install automatically.

Ok, after you finish this process, the next point is

Importing those python modules to this python project.

So, to import PyPDF2 python module

I write

Import PyPDF2

Like this

```
import PyPDF2
```

And to import the pyttsx3 python module I write the same way

Import pyttsx3

Like this

```
import pyttsx3
```

after that, I create an object by using this pyttsx3 python module.

For that

## Engine = pyttsx3.init()

```
engine = pyttsx3.init()
```

I give the object name engine,

If you give another name, you can give any name,

For this, I give the object name engine.

So, this code helps us to initialize the pyttsx3 python module.

After that I create another object by using PyPDF2 python module. To open and reed the PDF file.

Ok,

I call it PDF_Reader

So,

PDF_Reader = PyPDF2.PDFfilereader()

And inside this parenthesis I pass

Open () file command

By writing my PDF file name and the mode to open the file

For that I write

inside a double quote

My pdf file name, which is

“What is python.pdf” and the mode

“rb” that means read binary mode.

So, the code looks like this

```
pdf_reader = PyPDF2.PdfFileReader(open("What is python.pdf", "rb"))
```

ok, now I want to extract texts from all PDF pages before converting to speech and save all the extracted texts in the variable text.

For that I use the for loop

To extract all pages from The PDF file.

So, I write

By using for loop.

For Page_num in range()

And I pass Pdf_reader.numpages

Function, inside this range parenthesis

```
for page_num in range(pdf_reader.numPages):
```

after that

I create a text variable inside this for loop and save the extracted texts from the pdf file.

For that I write

Text = Pdf_reader.getpage() and inside this get page function I pass

Page_num and

.dot extracttext() function

So, this text variable looks like this

```
text = pdf_reader.getPage(page_num).extractText()
```

ok, now we finish the text extraction process from pdf file the next is.

Converting this text to speech by using pyttsx3.

For that

Now I want to check this text by saying with my computer voice.

To do that,

I write inside this for loop

engine.say() and I pass text, the variable I created above, like this

```
engine.say(text)
```

and to wait it,

engine.runandwait()

this function helps to speck and wait.

So, this

```
engine.runAndWait()
```

code is also important.

Ok now I finish this code.

The next point is running and seeing how this program works

For that I run it.

And as you see it starts

It converts the pdf to speech.

So, you can create any audio book by importing and book to this program.

This program works perfectly.

Now, this program converts a pdf file to the live voice,

However, if you want to save the voice in audio format, that means in the mp3 format.

You can also, do with this python program.

For that now I want to comment this two lines

```
#engine.say(text)
#engine.runAndWait()
```

And inside this for loop I write another code

Engine.Save_to_File()

And I pass the

Text

And, the file name to save  the audio file with .mp3

So, I give the audio file name

“Audio.mp3” inside the double quote.

```
engine.save_to_file(text, 'audio.mp3')
```

and after that, I write

engine.runand wait() function

```
engine.runAndWait()
```

and now when I run this code

it converts the pdf text to speech and save in the audio file in the same folder of this python project.

As you see it converts this pdf file to the audio file.

So, this python project is all about creating audio book by using those two-python module.

I think you get some concepts about this python project.

Thanks for your time

I will see you in the next python project

Thanks again!!

!!! The Full Code Look Like This !!!

```
# Importing Python Modules
import PyPDF2
import pyttsx3
engine = pyttsx3.init()

pdf_reader = PyPDF2.PdfFileReader(open("What is
python.pdf", "rb"))
for page_num in range(pdf_reader.numPages):
    text = pdf_reader.getPage(page_num).extractText()
    #engine.say(text)
    #engine.runAndWait()
    engine.save_to_file(text, 'audio.mp3')
    engine.runAndWait()
```

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