

Twitter Thread by Python Coding

**Python Coding**[@clcoding](#)

Top 15 Python Code to automate your work.

■:

1. Program to Create a Countdown Timer <https://t.co/NjV4gwgk8O>

Program to Create a Countdown Timer

```
import time

def countdown(time_sec):
    while time_sec:
        mins, secs = divmod(time_sec, 60)
        timeformat = '{:02d}:{:02d}'.format(mins, secs)
        print(timeformat, end='\r')
        time.sleep(1)
        time_sec -= 1

    print("stop")
num=int(input("Set Your Timer in Sec : "))

countdown(num)

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```

```
Set Your Timer in Sec : 10
stop1
```

2. Gif Creation in Python <https://t.co/qygde40RPM>

Gif Creation in Python

```
import imageio
filenames = ["1.png", "3.png", "4.png"]
#you can add any type of image
images = []
for filename in filenames:
    images.append(imageio.imread(filename))
imageio.mimsave('ritesh1.gif', images, 'GIF', duration=1)
#you can add duration as per your need
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```

3. Get address detail through python code <https://t.co/5RLAYt5bUz>

```
pip install geopy
```

Get address detail through python code

```
from geopy.geocoders import Nominatim

# Using Nominatim Api
geolocator = Nominatim(user_agent="geoapiExercises")

# Zipcode input
a = input("Enter the zipcode : ")
zipcode = a

# Using geocode()
location = geolocator.geocode(zipcode)

# Displaying address details
print("Zipcode:",zipcode)
print("Details of the Zipcode:")
print(location)
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```

```
Enter the zipcode : 411045
Zipcode: 411045
Details of the Zipcode:
Pune City, Maharashtra, 411045, India
```

4. Convert Video Files to a Gif in Python <https://t.co/PS7uwD8oAH>

Convert Video Files to a Gif in Python

```
from moviepy.editor import VideoFileClip  
  
videoClip = VideoFileClip("Binod.mp4")  
  
videoClip.write_gif("Binod.gif")  
  
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```

MoviePy - Building file Binod.gif with imageio.

5. Generate Image captcha in Python <https://t.co/rHWvViVd2N>

Generate Image captcha in Python

```
from captcha.image import ImageCaptcha
# Specify the image size
image = ImageCaptcha(width = 300, height = 100)
# Specify the Text for captcha
captcha_text = input("Enter Captcha text : ")
# generate the image of the given text
data = image.generate(captcha_text)
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# write the image on the given file and save it
image.write(captcha_text, 'E:\CAPTCHA1.png')
from PIL import Image
Image.open('E:\CAPTCHA1.png')
```

Enter Captcha text : python

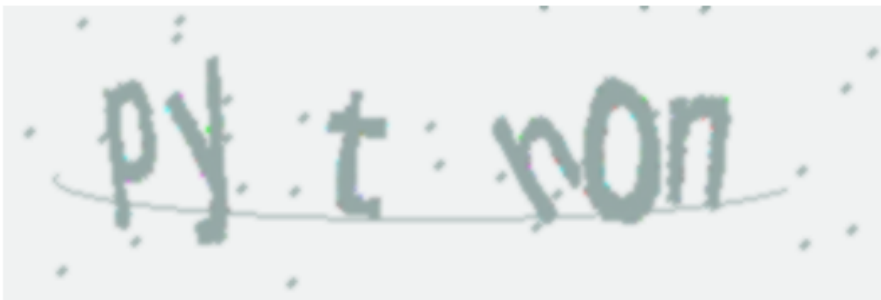


Image Watermarking with Python

```
from PIL import Image, ImageDraw, ImageFont
img = Image.open(r'binod.jpg')
draw = ImageDraw.Draw(img)
text = "clcoding.com"
font = ImageFont.truetype('arial.ttf', 50)
textwidth, textheight = draw.textsize(text, font)
width, height = img.size
x=width/2-textwidth/2
y=height-textheight-50
draw.text((x, y), text, font=font)
img.save(r'binod.png')
Image.open('binod.png')
```



7. Create an Audiobook in Python <https://t.co/WVxOsFPyUW>

```
pip install PyPDF2
```

```
pip install pyttsx3
```

Create an Audiobook in Python

```
import PyPDF2
import pyttsx3
# Read the pdf by specifying the path in your computer
pdfReader = PyPDF2.PdfFileReader(open('clcoding.pdf', 'rb'))
# Get the handle to speaker
speaker = pyttsx3.init()
# split the pages and read one by one
for page_num in range(pdfReader.numPages):
    text = pdfReader.getPage(page_num).extractText()
    speaker.say(text) #clcoding.com
    speaker.runAndWait()
# stop the speaker after completion
speaker.stop()
# save the audiobook at specified path
engine.save_to_file(text, 'E:\audio.mp3')
engine.runAndWait()
```

```
pip install pyshorteners
```

URL Shortener with Python - Tinyurl

```
import pyshorteners
long_url = input("Enter the URL to shorten: ")

##TinyURL shortener service
type_tiny = pyshorteners.Shortener()
short_url = type_tiny.tinyurl.short(long_url)

print("The Shortened URL is: " + short_url)

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```

Enter the URL to shorten: <https://www.clcoding.com/p/python.html>
The Shortened URL is: <https://tinyurl.com/2zb6hedv>

9. Unzip Files using Python <https://t.co/vfoWZAIXc4>

Unzip Files using Python

```
from zipfile import ZipFile

with ZipFile('binod.zip', 'r') as zip_object:
    zip_object.extractall()

#list of files that are archived in the ZIP file
print(zip_object.namelist())

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```

```
['binod.jpg', 'BumBumBole.gif', 'clcoding.pdf', 'file1.pdf']
```

10. Download YouTube Video in MP3 format with Python

```
pip install pytube
```

Download YouTube Video in MP3 format with Python

```
# importing packages
from pytube import YouTube
import os

# url input from user
yt = YouTube(str(input("Enter the URL of the video you want to download: \n>> ")))

# extract only audio
video = yt.streams.filter(only_audio=True).first()

# check for destination to save file
print("Enter the destination (leave blank for current directory)")
destination = str(input(">> ")) or '.'

# download the file
out_file = video.download(output_path=destination)

# save the file
base, ext = os.path.splitext(out_file)
new_file = base + '.mp3'
os.rename(out_file, new_file)    #clcoding.com

# result of success
print(yt.title + " has been successfully downloaded in .mp3 format.")
```

```
Enter the URL of the video you want to download:
>> https://youtu.be/32TuCmsaxcY
Enter the destination (leave blank for current directory)
>>
Day 75 : Convert Video Files to a Gif in Python has been successfully downloaded in .mp3 format.
```

11. Desktop Notification with Python <https://t.co/3E5HQkkw4d>

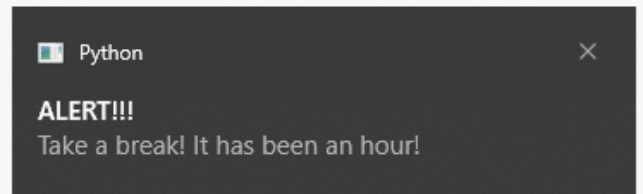
```
pip install plyer
```

Desktop Notification with Python

```
import time
from plyer import notification

if __name__ == "__main__":
    while True:
        notification.notify(
            title = "ALERT!!!",
            message = "Take a break! It has been an hour!",
            timeout = 10
        )
        time.sleep(3600)
```

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```
pip install webbrowser
```

Web Browsing in Python

```
import webbrowser
Url=input("Enter a url : ")
webbrowser.open(Url)

#Open the page in a new browser window.
webbrowser.open_new('Url')

#Open the page in a new browser tab.
webbrowser.open_new_tab('Url')

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```

Enter a url : <https://www.clcoding.com/>

```
pip install urllib
```

Download PDF books from Internet

```
import urllib.request
url=input("Enter Link to Download PDF : ")
Name=input("Enter a Name for the PDF File : ")
FileName = Name+".pdf"
urllib.request.urlretrieve(url,FileName)
```

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Enter Link to Download PDF : http://www.davekuhlman.org/python_book_01.pdf
Enter a Name for the PDF File : Python Book

('Python Book.pdf', <http.client.HTTPMessage at 0x1b25b97aeb0>)

14. PDF file protection using password <https://t.co/65hCyMOSdd>

```
pip install PyPDF2
```

PDF file protection using password

```
#pip install PyPDF2
from PyPDF2 import PdfFileWriter, PdfFileReader
import getpass
pdfwriter=PdfFileWriter()
pdf=PdfFileReader('E:\\clcoding.pdf')
for page_num in range(pdf.numPages):
    pdfwriter.addPage(pdf.getPage(page_num))
password=getpass.getpass(prompt='Enter Password: ')
pdfwriter.encrypt(password)
with open('E:\\clcoding.pdf','wb') as f:
    pdfwriter.write(f)

print("Now File is password protected")

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```

Enter Password:

Now File is password protected

Screenshot in Python

```
#pip install pyautogui
```

```
import pyautogui
```

```
myScreenshot=pyautogui.screenshot()
```

```
myScreenshot.save(r'E:\online.png')
```

```
#clcoding.com
```