



Press Alt+Z to use GeForce Experience in-game overlay

```
client_process.py x client_to_server.py x
47
48     approx = cv2.approxPolyDP(contour, 10, True)
49     if len(approx) == 4:
50         location = approx
51         break
52     mask = np.zeros(gray.shape, np.uint8)
53     new_image = cv2.drawContours(mask, [location], 0, 255, -1)
54     new_image = cv2.bitwise_and(img, img, mask=mask)
55     (x,y) = np.where(mask==255)
56     (x1, y1) = (np.min(x), np.min(y))
57     (x2, y2) = (np.max(x), np.max(y))
58     cropped_image = gray[x1:x2+1, y1:y2+1]
59     reader = easyocr.Reader(['en'])
60     text = reader.readtext(cropped_image)
61     return text
62 directory = "./carimagesmore/"
```

Shell x

```
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 782.347 Seconds = 13.04 Minutes
```

33.888 MB

&gt;&gt;&gt;

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image11 - Copy.jpg  
Status\_MSG: Incomming File Size = 2841358  
Status\_MSG: File Reception Completed  
Status\_MSG: image11 - Copy.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image17 - Copy.jpg  
Status\_MSG: Incomming File Size = 240915  
Status\_MSG: File Reception Completed  
Status\_MSG: image17 - Copy.jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

Amount of Data Received: 62 images with combined size 33.888 MB  
Time Taken to Receive 33.888 MB of 62 Images: 11.06 Seconds

Status\_MSG: Extracting Licence Plate Numbers From Images  
Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 112.03 Seconds

Time Taken for Complete Process: 123.094 Seconds = 2.05 Minutes  
Local Time at End of Process: 10:21:14

In [3]:

```
1 import torch
2 print(torch.cuda.is_available())
3 print(torch.version.cuda)
```

True  
11.3

In [ ]:

```
1
```



File Edit View Run Tools Help



client\_process.py x client\_to\_server.py \*

```

47
48     approx = cv2.approxPolyDP(contour, 10, True)
49     if len(approx) == 4:
50         location = approx
51         break
52     mask = np.zeros(gray.shape, np.uint8)
53     new_image = cv2.drawContours(mask, [location], 0, 255, -1)
54     new_image = cv2.bitwise_and(img, img, mask=mask)
55     (x,y) = np.where(mask==255)
56     (x1, y1) = (np.min(x), np.min(y))
57     (x2, y2) = (np.max(x), np.max(y))
58     cropped_image = gray[x1:x2+1, y1:y2+1]
59     reader = easyocr.Reader(['en'])
60     text = reader.readtext(cropped_image)
61     return text

```

Shell x

```

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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 1537.025 Seconds = 25.62 Minutes

```

67.776 MB

>>>

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) Logout

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image8.jpg  
Status\_MSG: Incomming File Size = 17103  
Status\_MSG: File Reception Completed  
Status\_MSG: image8.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image11 - Copy.jpg  
Status\_MSG: Incomming File Size = 2841358  
Status\_MSG: File Reception Completed  
Status\_MSG: image11 - Copy.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image17 - Copy.jpg  
Status\_MSG: Incomming File Size = 240915  
Status\_MSG: File Reception Completed  
Status\_MSG: image17 - Copy.jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

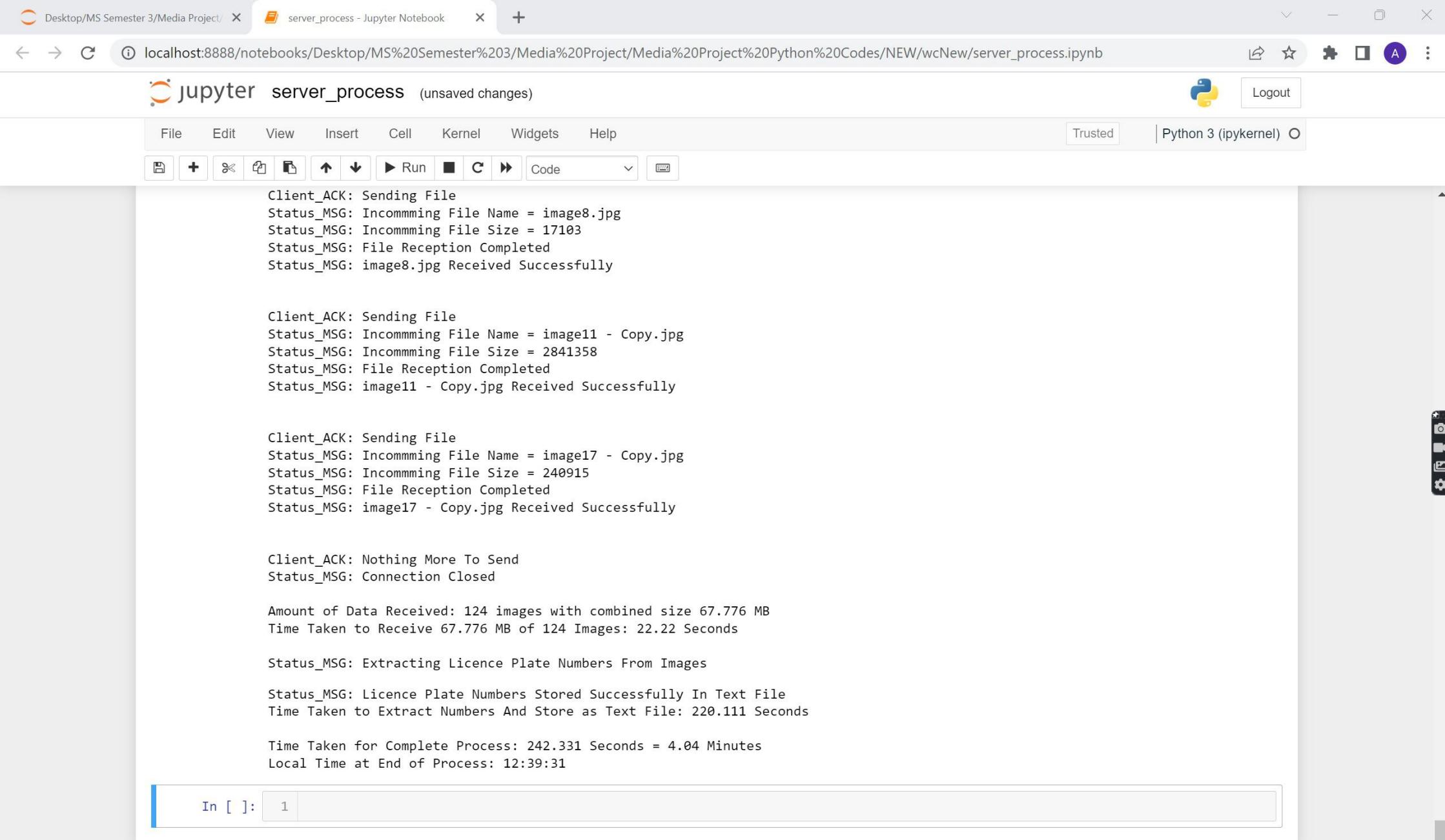
Amount of Data Received: 124 images with combined size 67.776 MB  
Time Taken to Receive 67.776 MB of 124 Images: 22.22 Seconds

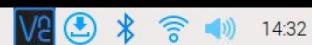
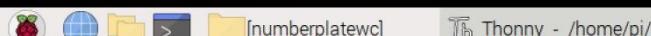
Status\_MSG: Extracting Licence Plate Numbers From Images

Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 220.111 Seconds

Time Taken for Complete Process: 242.331 Seconds = 4.04 Minutes  
Local Time at End of Process: 12:39:31

In [ ]: 1





File Edit View Run Tools Help



client\_process.py x client\_to\_server.py \*x

```

60     return text
61
62 directory = "./carimage124-reduced/"
63 start_time = time.time()
64 for file_name in os.listdir(directory):
65     picture = directory + file_name
66     raw_no = algo(picture)
67     licence_plate_no = clean(raw_no)
68     #print(file_name[:-4].strip() + ':' + licence_plate_no)#to remove .jpg extension
69     with open('data.txt','a') as fh:
70         fh.write(file_name[:-4].strip() + ':' + licence_plate_no)
71         fh.write('\n')
72
73 end_time = time.time()

```

Shell x

```

CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 1438.271 Seconds = 23.97 Minutes

```

32.492 MB

>>>

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = qau.jpg  
Status\_MSG: Incomming File Size = 7832  
Status\_MSG: File Reception Completed  
Status\_MSG: qau.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = ppout - Copy.jpg  
Status\_MSG: Incomming File Size = 7832  
Status\_MSG: File Reception Completed  
Status\_MSG: ppout - Copy.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image5 - Copy - Copy (2).jpg  
Status\_MSG: Incomming File Size = 19642  
Status\_MSG: File Reception Completed  
Status\_MSG: image5 - Copy - Copy (2).jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

Amount of Data Received: 124 images with combined size 32.492 MB  
Time Taken to Receive 32.492 MB of 124 Images: 15.2 Seconds

Status\_MSG: Extracting Licence Plate Numbers From Images

Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 224.602 Seconds

Time Taken for Complete Process: 239.805 Seconds = 4.0 Minutes  
Local Time at End of Process: 15:06:11

In [ ]: 1



client\_process.py x client\_to\_server.py \*

```

60
61
62 directory = "./carimage248/"
63 start_time = time.time()
64 for file_name in os.listdir(directory):
65     picture = directory + file_name
66     raw_no = algo(picture)
67     licence_plate_no = clean(raw_no)
68     #print(file_name[:-4].strip() + ':' + licence_plate_no)#to remove .jpg extension
69     with open('data.txt','a') as fh:
70         fh.write(file_name[:-4].strip() + ':' + licence_plate_no)
71         fh.write('\n')
72
73 end_time = time.time()

```

Shell x

```

CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 3070.032 Seconds = 51.17 Minutes

```

135.552 MB

&gt;&gt;&gt;

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image5 - Copy - Copy (2).jpg  
Status\_MSG: Incomming File Size = 19642  
Status\_MSG: File Reception Completed  
Status\_MSG: image5 - Copy - Copy (2).jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image17 - Copy.jpg  
Status\_MSG: Incomming File Size = 240915  
Status\_MSG: File Reception Completed  
Status\_MSG: image17 - Copy.jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

Amount of Data Received: 248 images with combined size 135.552 MB  
Time Taken to Receive 135.552 MB of 248 Images: 48.48 Seconds

Status\_MSG: Extracting Licence Plate Numbers From Images  
Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 446.882 Seconds

Time Taken for Complete Process: 495.366 Seconds = 8.26 Minutes  
Local Time at End of Process: 12:19:28

In [ ]: 1



File Edit View Run Tools Help



client\_process.py x client\_to\_server.py x

```

60
61
62 directory = "./carimage248-reduced-b/"
63 start_time = time.time()
64 for file_name in os.listdir(directory):
65     picture = directory + file_name
66     raw_no = algo(picture)
67     licence_plate_no = clean(raw_no)
68     #print(file_name[:-4].strip() + ':' + licence_plate_no)#to remove .jpg extension
69     with open('data.txt','a') as fh:
70         fh.write(file_name[:-4].strip() + ':' + licence_plate_no)
71         fh.write('\n')
72
73 end_time = time.time()

```

Shell x

```

CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 2700.111 Seconds = 45.0 Minutes

```

2.727 MB

&gt;&gt;&gt;

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) ○

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = ppssa - Copy.jpg  
Status\_MSG: Incomming File Size = 7832  
Status\_MSG: File Reception Completed  
Status\_MSG: ppssa - Copy.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = ppout - Copy - Copy.jpg  
Status\_MSG: Incomming File Size = 7832  
Status\_MSG: File Reception Completed  
Status\_MSG: ppout - Copy - Copy.jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image5 - Copy - Copy (2).jpg  
Status\_MSG: Incomming File Size = 19642  
Status\_MSG: File Reception Completed  
Status\_MSG: image5 - Copy - Copy (2).jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

Amount of Data Received: 248 images with combined size 2.727 MB  
Time Taken to Receive 2.727 MB of 248 Images: 5.22 Seconds

Status\_MSG: Extracting Licence Plate Numbers From Images

Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 443.74 Seconds

Time Taken for Complete Process: 448.962 Seconds = 7.48 Minutes  
Local Time at End of Process: 15:23:25

In [ ]: 1

File Edit View Run Tools Help



client\_process.py x client\_to\_server.py \*x

```

60
61
62 directory = "./carimage248-reduced/"
63 start_time = time.time()
64 for file_name in os.listdir(directory):
65     picture = directory + file_name
66     raw_no = algo(picture)
67     licence_plate_no = clean(raw_no)
68     #print(file_name[:-4].strip() + ':' + licence_plate_no)#to remove .jpg extension
69     with open('data.txt','a') as fh:
70         fh.write(file_name[:-4].strip() + ':' + licence_plate_no)
71         fh.write('\n')
72
73 end_time = time.time()

```

Shell x

```

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CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
CUDA not available - defaulting to CPU. Note: This module is much faster with a GPU.
Time Taken for Complete Process: 2981.243 Seconds = 49.69 Minutes

```

65.772 MB

>>>

Desktop/MS Semester 3/Media Project/ x server\_process - Jupyter Notebook x +

localhost:8888/notebooks/Desktop/MS%20Semester%203/Media%20Project/Media%20Project%20Python%20Codes/NEW/wcNew/server\_process.ipynb

jupyter server\_process (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) Logout

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image5 - Copy - Copy (2).jpg  
Status\_MSG: Incomming File Size = 19642  
Status\_MSG: File Reception Completed  
Status\_MSG: image5 - Copy - Copy (2).jpg Received Successfully

Client\_ACK: Sending File  
Status\_MSG: Incomming File Name = image17 - Copy.jpg  
Status\_MSG: Incomming File Size = 240915  
Status\_MSG: File Reception Completed  
Status\_MSG: image17 - Copy.jpg Received Successfully

Client\_ACK: Nothing More To Send  
Status\_MSG: Connection Closed

Amount of Data Received: 248 images with combined size 65.772 MB  
Time Taken to Receive 65.772 MB of 248 Images: 19.98 Seconds

Status\_MSG: Extracting Licence Plate Numbers From Images  
Status\_MSG: Licence Plate Numbers Stored Successfully In Text File  
Time Taken to Extract Numbers And Store as Text File: 462.09 Seconds

Time Taken for Complete Process: 482.071 Seconds = 8.03 Minutes  
Local Time at End of Process: 13:54:48

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