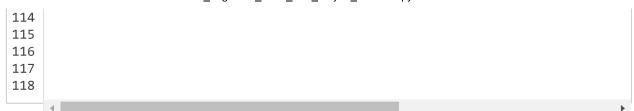
```
In [4]:
              class ProjectPanAadhar():
           1
           2
           3
                  def __init__(self):
           4
                      pass
           5
                  def pan_card(self,pan_path):
           6
                      import pytesseract
           7
                      import re
           8
                      0.00
           9
                      This function extract texts from PAN card image and provides user in
          10
         11
         12
                      if type(pan_path)==str:
         13
                          pan_path_new=[]
         14
                          pan_path_new.append(pan_path)
                          pan_path=pan_path_new
         15
                      pytesseract.pytesseract.tesseract_cmd=r"C:\Program Files\Tesseract-d
         16
         17
                      dob1=[]
         18
                      user=[]
         19
                      pan=[]
          20
                      for path in pan path:
                          path_list=path.split("\\")
          21
                          file_name=path_list[-1]
          22
          23
                          file name=file name.rstrip(".jpg")
          24
                          text=pytesseract.image to string(path)
          25
                          dob_pattern=r"\b\d{1,2}[-/]\d{1,2}[-/]\d{2,4}\b"
          26
                          dob=re.findall(dob pattern,text)
          27
                          dob=dob[0]
          28
                          pan pattern=r"\b[A-Z]{5}[0-9]{4}[A-Z]\b"
          29
                          pan no list=re.findall(pan pattern,text)
          30
                          try:
          31
                              pan_no=pan_no_list[0]
          32
          33
          34
                          except:
          35
                              pan no="Not available"
          36
          37
                          dob1.append(dob)
          38
                          pan.append(pan no)
                          user.append(file name)
          39
          40
                      dict1={"User Name":user,"DOB":dob1,"PAN No.":pan}
          41
         42
                      dict1={"User Name":user, "PAN No.":pan, "DOB":dob1}
                      return dict1
         43
          44
          45
                  def aadhar card(self,aadhar path):
          46
                      import pytesseract
          47
                      import re
         48
                      This function extract texts from aadhar card image and provides user
         49
          50
                      if type(aadhar path)==str:
          51
                          aadhar path new=[]
          52
          53
                          aadhar_path_new.append(aadhar_path)
                          aadhar_path=aadhar_path_new
          54
          55
                      pytesseract.pytesseract.tesseract_cmd=r"C:\Program Files\Tesseract-d
                      dob_adhar=[]
         56
```

```
57
             adhar=[]
 58
             user_aadhar=[]
             for path in aadhar_path:
 59
 60
                 aadhar_dict={}
 61
                 path_list=path.split("\\")
                 file_name=path_list[-1]
 62
 63
                 file name=file name.rstrip(".jpg")
 64
                 text=pytesseract.image_to_string(path)
                 dob_pattern=r"\b\d{1,2}[-/]\d{1,2}[-/]\d{2,4}\b"
 65
                 dob list=re.findall(dob pattern,text)
 66
 67
                 if bool(dob list):
 68
                     dob=dob_list[0]
 69
                 else:
                     dob_pattern=r"\b[: ]{2,4}[0-9]{4}\b"
 70
 71
                     dob_list=re.findall(dob_pattern,text)
                     dob string="".join(dob list)
 72
 73
                     dob_new_list=[]
 74
                     for char in dob_string:
 75
                         if char.isdecimal():
 76
                              dob new list.append(char)
 77
                     dob="".join(dob_new_list)
 78
                 aadhar_pattern=r"\b[0-9]{4}[ ][0-9]{4}[ ][0-9]{4}\b"
 79
 80
                 aadhar no list=re.findall(aadhar pattern,text)
 81
                 try:
 82
                     aadhar no=aadhar no list[0]
 83
 84
                 except:
 85
                     aadhar no="Not available"
 86
                     pass
 87
                 dob adhar.append(dob)
 88
                 adhar.append(aadhar no)
 89
                 user aadhar.append(file name)
                 dict2={"User Name":user_aadhar,"DOB":dob_adhar,"Aadhar No.":adha
 90
 91
             return dict2
 92
 93
 94
 95
 96
 97
 98
 99
     import glob
100
     import pandas as pd
     pan_path_list=glob.glob(r"C:\Users\kannu\OneDrive\Desktop\DataScience\Projection

101
102 | aadhar_path_list=glob.glob(r"C:\Users\kannu\OneDrive\Desktop\DataScience\Pro
103
    obj=ProjectPanAadhar()
104
    pan details=obj.pan card(pan path list)
105
     pan_df=pd.DataFrame(pan_details)
     pan df.to csv("User PAN details.csv",index=False)
106
     aadhar_details=obj.aadhar_card(aadhar_path_list)
107
108
109
     adhar df=pd.DataFrame(aadhar details)
110
     adhar df.to csv("User Aadhar details.csv",index=False)
     print("PAN details are=\n",pan_details)
111
112 | print("\n\n\n")
113
    print("Aadhar details are=\n",aadhar_details)
```



PAN details are=

{'User Name': ['user_aditya', 'user_deepak', 'user_kalu', 'user_manikandan', 'user_monika', 'user_prem', 'user_sanjay', 'user_shrikanth', 'user_soniya', 'user_vivek'], 'PAN No.': ['DCQPK8010K', 'DZNPP7962M', 'FMNPM7828G', 'BNZPM2501F', 'EJAPS0276M', 'BJDPP6011M', 'LLSPS8447P', 'GQBPK8700C', 'HWLPS5369L', 'EAKPK1204G'], 'DOB': ['24/01/1994', '15/07/1983', '17/04/1982', '16/07/1986', '31/10/1992', '09/07/1986', '28/02/1991', '04/05/1997', '01/01/1993', '17/09/1996']}

Aadhar details are=

{'User Name': ['user_kanika', 'user_kasif', 'user_khalid', 'user_nazifa', 'user_pandey', 'user_panka', 'user_parikh', 'user_santosh', 'user_sira', 'user_sohe b'], 'DOB': ['11/08/1993', '01/01/2001', '07/08/1985', '06/06/2020', '12/01/201 2', '1994', '09/02/2016', '07/02/1999', '01/02/1991', '1993'], 'Aadhar No.': ['2114 5270 9955', '3140 3351 7159', '3076 6146 3849', '8776 7245 1739', '5548 0381 0828', '2595 2610 4168', '6997 4950 7961', '6562 6029 6757', '4976 5233 26 09', '5177 5394 4789']}

In []: | 1 |