

In [1]:

```
# text recognition
import cv2
import pytesseract
import json
```

In [43]:

```
# read image
im = cv2.imread('images/image5.jpg')
```

In [44]:

```
# configurations
config = ('-l eng --oem 1 --psm 3')
```

In [45]:

```
# pytesseract
text = pytesseract.image_to_string(im, config=config)
```

In [46]:

```
# print text
text1 = text.split('\n')
text1
```

Out[46]:

```
['Wea (Ta) Wren, Fae 421 306.',
'',
'Payable at all Branches',
'KALYAN(EAST) BRANCH, MUMBAI - 421306',
'IFSC:CBIN0283773',
'',
'oR FR do',
'Central Bank of India',
'',
'I>)',
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'Be? Ri. M ¥ vy',
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'three months from date of instrument',
'a',
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'#',
'',
'00000003288054003',
'',
'Valid for',
'z',
'&',
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'',
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'',
',',
'',
' CIS ier: me'',
'',
'ear 4 oS DILIP KAILASH SAHU',
'',
':',
'»)',
'',
'a . ee. bse | 5',
```

```
'See pee os sa',  
'',  
'w0LSLE7" LOCO A02 00F7LE" 3b']
```

In [120]:

```
values = []  
position = [4,7,34,47,55]  
for i in position:  
    if i == 4:  
        values.append(text1[i][5:])  
    elif i == 47:  
        values.append(text1[i][9:27])  
    elif i == 55:  
        values.append(text1[i][9:24])  
    else:  
        values.append(text1[i])
```

In [121]:

```
values
```

Out[121]:

```
['CBIN0283773',  
'Central Bank of India',  
'00000003288054003',  
'DILIP KAILASH SAHU',  
'LOCO A02 00F7LE']
```

In [122]:

```
keys = ["IFCS Code","Bank Name","Account Number","Account Holder Name","MICR Code"]
```

In [123]:

```
# to convert lists to dictionary  
res = {}  
for key in keys:  
    for value in values:  
        res[key] = value  
        values.remove(value)  
        break
```

In [124]:

```
res
```

Out[124]:

```
{'IFCS Code': 'CBIN0283773',  
'Bank Name': 'Central Bank of India',  
'Account Number': '00000003288054003',  
'Account Holder Name': 'DILIP KAILASH SAHU',  
'MICR Code': 'LOCO A02 00F7LE'}
```

In [125]:

```
# convert into JSON:
json_output = json.dumps(res)
json_output
```

Out[125]:

```
{'IFCS Code': 'CBIN0283773', 'Bank Name': 'Central Bank of India', 'Account Number': '00000003288054003', 'Account Holder Name': 'DILIP KAILASH SAHU', 'MICR Code': 'LOCO A02 00F7LE'}
```

In [128]:

```
# save the file in json format
with open('chaque.json', 'w') as json_file:
    json.dump(res, json_file, indent = 6)
```

In [129]:

```
# Open save json file
with open('chaque.json') as f:
    data = json.load(f)
    print(data)
```

```
{'IFCS Code': 'CBIN0283773', 'Bank Name': 'Central Bank of India', 'Account Number': '00000003288054003', 'Account Holder Name': 'DILIP KAILASH SAHU', 'MICR Code': 'LOCO A02 00F7LE'}
```

In []: