Program Analysis report for Barcode and QR reader

Program Logic
The program will take the name of the file plus extension as input. The file must be in the same directory as the jupyter notebook file.

Libraries used

1. **os** library to list folders and files
2. **opencv-python** to read barcode / qr images
3. **pyzbar** to decode the image read by opencv-python

Improvements
A better solution would be to create a flask application where image upload is possible. Another improvement is to list the possible barcode types and allow the user to select the appropriate type:

In [1]:
```
from pyzbar.pyzbar import ZBarSymbol
#List all the possible barcode types
for s in ZBarSymbol:
    print(s.name)
```

```
NONE
PARTIAL
EAN2
EAN5
EAN8
UPCE
ISBN10
UPCA
EAN13
ISBN13
COMPOSITE
I25
DATABAR
DATABAR_EXP
CODABAR
CODE39
PDF417
QRCODE
SQCODE
CODE93
CODE128
```

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The **decode** function of pyzbar takes the barcode type as a keyword argument. Example:

```
decoded_img = decode(img, symbols=[ZBarSymbol.QRCODE,
ZBarSymbol.EAN13])
```