## EXPERIMENT 16 – BUILD A QR CODE SCANNER

**Aim:** To build a QR code scanner using opency.

## Algorithm:

- 1. Install Libraries: Install opency-python and pyzbar libraries.
- 2. Initialize Camera: Set up the camera to capture images.
- 3. Capture Image: Capture a frame from the camera feed.
- 4. Convert to Grayscale: Convert the captured frame to grayscale.
- 5. Detect QR Code: Use pyzbar to detect QR codes in the grayscale image.
- 6. Decode QR Code: Decode the detected QR code to extract information.
- 7. Display Result: Display the decoded information and draw a bounding box around the QR code
- 8. Repeat: Continuously capture frames and process them until the user stops the program.

## Code & output:

```
!pip install pyqrcode
!pip install pypng
!pip install IPython
import pyqrcode
import png
from pyqrcode import QRCode
from IPython.display import Image

s = "Mr Programmer github Link - https://github.com/dashboard"

url = pyqrcode.create(s)
url.png('myqr.png', scale=6)

Image(filename='myqr.png')
```

