For making QRCode

In [1]:

```
#make sure you have install it in your anaconda prompt(by simply using   pip install qr
import qrcode
```

In [2]:

```
img=qrcode.make('https://www.youtube.com/channel/UCzu4Qd3YCr3tagmJswh7Qyw')

#save image of QRcode in png,jpgor svg format

img.save('youtube.png',scale=8)

#All saved files are stored in home of jupyter notebook
```

For making QRCode interesting

In [3]:

```
import qrcode

new=qrcode.QRCode(
                box_size=10,
                border=4)

#adding My Youtube Channel link to QRCode
new.add_data('https://www.youtube.com/channel/UCzu4Qd3YCr3tagmJswh7Qyw')

#make_image() function to make image color red and it backgroud color as white

new=new.make_image(fill_color="red",back_color="white")

#saving image of QRCode as yt.png
new.save('yt.png')
```

For reading QRCode

In [4]:

```
#pip install cv2 (cv=computer vision :  for image processing and object detection etc. )

#if first one doesn't work

#pip3 install opencv-python
import cv2
```

In [5]:

```
#read the image using imread() function of opencv2
padho= cv2.imread('yt.png')
```

In [6]:

```
#now detecting the qrcode from the image using QRCodeDetector()

detect=cv2.QRCodeDetector()
```

In [7]:

```
#now we are detect and Decode the qrcode using detectandDecode()

decoded_text,points,rb_code=detect.detectAndDecode(padho)

#decoded_text= content of qrcode
#points = Output array of vertices of the QR code
#rb_code = rectified and binarized qrcode
```

In [8]:

```
print("Content of qrcode:",decoded_text)
```

```
Content of qrcode: https://www.youtube.com/channel/UCzu4Qd3YCr3tagmJswh7Qy
w (https://www.youtube.com/channel/UCzu4Qd3YCr3tagmJswh7Qyw)
```

In [9]:

```
print(points)
```

```
[[[ 40.  40.]
  [369.  40.]
  [369. 369.]
  [ 40. 369.]]]
```

In [10]:

```
print(rb_code)
```

```
[[  0   0   0 ...   0   0   0]
 [  0 255 255 ... 255 255   0]
 [  0 255   0 ...   0 255   0]
 ...
 [  0 255   0 ... 255 255 255]
 [  0 255 255 ... 255 255 255]
 [  0   0   0 ... 255 255   0]]
```