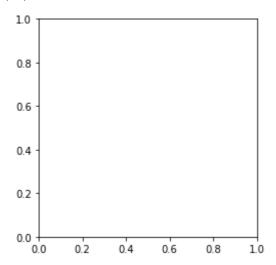
# In [3]:

### In [8]:

```
"""For scanning the QR Code in image"""
# load the input image
image = cv2.imread("/home/shreeagt/Desktop/IP internship/pic3.png")
# find the barcodes in the image and decode each of the barcodes
plt.imshow(image)
plt.show()
barcodes = pyzbar.decode(image)
# loop over the detected barcodes
for barcode in barcodes:
   # extract the bounding box location of the barcode and draw the
   # bounding box surrounding the barcode on the image
      barcodeType="notfound"
    (x, y, w, h) = barcode.rect
   cv2.rectangle(image, (x, y), (x + w, y + h), (0, 0, 255), 2)
   # the barcode data is a bytes object so if we want to draw it on
   # our output image we need to convert it to a string first
   barcodeData = barcode.data.decode("utf-8")
   barcodeType = barcode.type
   # draw the barcode data and barcode type on the image
   text = "{} ({})".format(barcodeData, barcodeType)
   cv2.putText(image, text, (x, y - 10), cv2.FONT_HERSHEY_SIMPLEX,0.5, (0, 0, 255)
   # print the barcode type and data to the terminal
   print("[INFO] Found {} barcode: {}".format(barcodeType, barcodeData))
   print(x,y,x+w,y+h)
    # show the output image
plt.imshow(image)
plt.show()
```

TypeError Traceback (most recent call last) <ipython-input-8-bc3459e24041> in <module> 2 image = cv2.imread("/home/shreeagt/Desktop/IP internship/pic3. png") 3 # find the barcodes in the image and decode each of the barcod es ---> 4 plt.imshow(image) 5 plt.show() 6 barcodes = pyzbar.decode(image) ~/anaconda3/lib/python3.7/site-packages/matplotlib/pyplot.py in imshow (X, cmap, norm, aspect, interpolation, alpha, vmin, vmax, origin, exte nt, shape, filternorm, filterrad, imlim, resample, url, data, \*\*kwarg s) 2682 filternorm=filternorm, filterrad=filterrad, imlim=imli m, resample=resample, url=url, \*\*({"data": data} if data 2683 is not None else {}), \*\*kwargs) -> 2684 sci( ret) 2685 2686 return ret ~/anaconda3/lib/python3.7/site-packages/matplotlib/ init .py in inne r(ax, data, \*args, \*\*kwargs) def inner(ax, \*args, data=None, \*\*kwarqs): 1597 1598 if data is None:

TypeError: Image data of dtype object cannot be converted to float



### In [5]:

```
"""for scanning QR Code in Recorded Video"""
cap = cv2.VideoCapture('video2.mp4')
while (True):
# Read the frame
    check,img = cap.read()
   barcodes = pyzbar.decode(img)
    for barcode in barcodes:
    # extract the bounding box location of the barcode and draw the
    # bounding box surrounding the barcode on the image
        (x, y, w, h) = barcode.rect
        cv2.rectangle(img, (x, y), (x + w, y + h), (0, 0, 255), 2)
    # the barcode data is a bytes object so if we want to draw it on
    # our output image we need to convert it to a string first
        barcodeData = barcode.data.decode("utf-8")
        barcodeType = barcode.type
    # draw the barcode data and barcode type on the image
        text = "{} ({})".format(barcodeData, barcodeType)
        cv2.putText(img, text, (x, y - 10), cv2.FONT_HERSHEY_SIMPLEX,
            0.5, (0, 0, 255), 2)
    cv2.imshow('img', img)
    crop_img = img[y:y+h, x:x+w]
    # Stop if 'q' key is pressed
    k = cv2.waitKey(1) #& 0xff
    if k==ord('q'):
        break
# Release the VideoCapture object
cap.release()
# out.release()
cv2.destroyAllWindows()
print("[INFO] Found {} barcode: {}".format(barcodeType, barcodeData))
```

[INF0] Found QRCODE barcode: 1@VwFvi2wCGh9q2Kd2t2m4WmXw3+LUtYEj0+sZr8y
TggPmXCkL/y1vfyMP,wZSU03WLkLDDj+zRPmL+HrZUIL2hLdUmNTz8if7wDiA=,xsKz6l1
JrM4J5tddfnw70g==

### In [9]:

```
"""For Scanning QR Code during live videorecording"""
cap = cv2.VideoCapture(0)
while (True):
# Read the frame
    check,img = cap.read()
    barcodes = pyzbar.decode(img)
    for barcode in barcodes:
    # extract the bounding box location of the barcode and draw the
    # bounding box surrounding the barcode on the image
        (x, y, w, h) = barcode.rect
        cv2.rectangle(img, (x, y), (x + w, y + h), (0, 0, 255), 2)
    # the barcode data is a bytes object so if we want to draw it on
    # our output image we need to convert it to a string first
        barcodeData = barcode.data.decode("utf-8")
        barcodeType = barcode.type
    # draw the barcode data and barcode type on the image
        text = "{} ({})".format(barcodeData, barcodeType)
        cv2.putText(img, text, (x, y - 10), cv2.FONT HERSHEY SIMPLEX,
            0.5, (0, 0, 255), 2)
   cv2.imshow('img', img)
    # Stop if escape key is pressed
    k = cv2.waitKey(1) #& 0xff
    if k==ord('q'):
        break
# Release the VideoCapture object
cap.release()
# out.release()
cv2.destroyAllWindows()
```

### In [1]:

```
#Files containing QR Codes
with open('datafile.txt') as file:
    qrlist=file.read().splitlines()
print(qrlist)

['111111', '111112', '111113', '111114', '111115', '111116', '111117',
'111118', '111119', '111120']
```

### In [9]:

```
"""for checking Authorized or UnAutohetized entry"""
cap = cv2.VideoCapture(0)
while (True):
# Read the frame
    check,img = cap.read()
    barcodes = pyzbar.decode(img)
    for barcode in barcodes:
    # extract the bounding box location of the barcode and draw the
    # bounding box surrounding the barcode on the image
        (x, y, w, h) = barcode.rect
        cv2.rectangle(img, (x, y), (x + w, y + h), (0, 0, 255), 2)
    # the barcode data is a bytes object so if we want to draw it on
    # our output image we need to convert it to a string first
        barcodeData = barcode.data.decode("utf-8")
        barcodeType = barcode.type
        if barcodeData in grlist:
            myOutput = 'Authorized'
            myColor = (0,255,0)
        else:
            myOutput = 'Un-Authorized'
            myColor = (0, 0, 255)
    # draw the barcode data and barcode type on the image
        text = "{} ({}) {}".format(myOutput,barcodeType,barcodeData)
        cv2.putText(img, text, (x, y - 10), cv2.FONT_HERSHEY SIMPLEX,
            0.5, (0, 0, 255), 2)
    cv2.imshow('img', img)
    # Stop if escape key is pressed
    k = cv2.waitKey(1) #& 0xff
    if k==ord('q'):
        break
# Release the VideoCapture object
cap.release()
# out.release()
cv2.destroyAllWindows()
```

## In [ ]: