```
In [10]:  import numpy as np
```

```
In [13]:  import matplotlib.pyplot as plt
```

```
In [14]:  from PIL import Image # pil is a library or package used for images
```

```
In [7]:  ARMY=Image.open(r'C:\Users\manim\OneDrive\Desktop\BTS.jpg') # R IS RAW IMAGE
         ARMY
```

Out[7]:


```
In [8]:  print(type(ARMY))
```

```
<class 'PIL.JpegImagePlugin.JpegImageFile'>
```

CONVERTING IMAGE TO ARRAY

```
In [11]:  seoul_array=np.asarray(ARMY) # 3 dimensional
          seoul_array
```

```
Out[11]: array([[[ 76,  90,  55],
                 [ 71,  85,  50],
                 [ 79,  93,  60],
                 ...,
                 [219, 235, 255],
                 [219, 235, 255],
                 [218, 234, 255]],

                [[ 59,  73,  38],
                 [ 71,  85,  50],
                 [ 90, 104,  69],
                 ...,
                 [218, 234, 255],
                 [217, 233, 255],
                 [217, 233, 255]],

                [[ 54,  68,  33],
                 [ 85,  99,  64],
                 [102, 118,  82],
                 ...,
                 [216, 232, 255],
                 [215, 231, 255],
                 [214, 230, 255]],

                ...,

                [[155, 163,  41],
                 [155, 165,  43],
                 [181, 191,  76],
                 ...,
                 [167, 175, 212],
                 [168, 176, 213],
                 [169, 177, 214]],

                [[170, 168,  65],
                 [158, 160,  51],
                 [159, 166,  54],
                 ...,
                 [170, 178, 214],
                 [171, 179, 215],
                 [171, 179, 215]],

                [[156, 154,  51],
                 [138, 140,  31],
                 [154, 161,  49],
                 ...,
                 [170, 178, 214],
                 [171, 179, 215],
                 [171, 179, 215]]], dtype=uint8)
```

```
In [15]: plt.imshow(seoul_array) # array convert into graph
```

```
Out[15]: <matplotlib.image.AxesImage at 0x18b8e85f620>
```

In [16]: `seoul_array.shape`

Out[16]: `(386, 686, 3)`

In [ ]: