In [2]:
```
import cv2
import matplotlib.pyplot as plt
import numpy as np
```

In [3]:
```
import cv2
def pan_stich(image_paths,output_loc):

    #We have the images in the filders buildingsSet1,2,3,4,5
    imgs = []
    for i in range(len(image_paths)):
        imgs.append(cv2.imread(image_paths[i]))
        imgs[i]=cv2.resize(imgs[i],(0,0),fx=0.4,fy=0.4)
    stitchy=cv2.Stitcher.create()
    (dummy,output)=stitchy.stitch(imgs)
    if dummy != cv2.STITCHER_OK:
        print("stitching unsuccessful")
    else:
        print('The panaromic output is stored in '+output_loc+'\out.jpg')
    # final output is stored into respective folders
    cv2.imwrite(output_loc+'\out.jpg',output)
```

In [4]:
```
loc=r'E:\\u\sem1\\cv\\aat2\\question2\buildingsSet1'
image_paths=[loc+'\\rialto_team6-1.jpeg',loc+'\\rialto_team6-2.jpeg',loc+'\\rialto_
image_dest=r'E:\u\sem1\cv\aat2\question2\buildingsSet1'
pan_stich(image_paths,image_dest)
```

```
The panaromic output is stored in E:\u\sem1\cv\aat2\question2\buildingsSet1\out.jp
g
```

In [5]:
```
loc=r'E:\\u\sem1\\cv\\aat2\\question2\buildingsSet2'
image_paths=[loc+r'\sportsarena1.jpg',loc+r'\sportsarena2.jpg',loc+r'\sportsarena3.
image_dest=r'E:\\u\sem1\\cv\\aat2\\question2\buildingsSet2'
pan_stich(image_paths,image_dest)
```

```
The panaromic output is stored in E:\\u\sem1\\cv\\aat2\\question2\buildingsSet2\ou
t.jpg
```

In [6]:
```
loc=r'E:\\u\sem1\\cv\\aat2\\question2\buildingsSet3'
image_paths=[loc+r'\bookstore1.jpg',loc+r'\bookstore2.jpg',loc+r'\bookstore3.jpg']
image_dest=r'E:\u\sem1\cv\\aat2\question2\buildingsSet3'
pan_stich(image_paths,image_dest)
```

```
The panaromic output is stored in E:\u\sem1\cv\\aat2\question2\buildingsSet3\out.j
pg
```

In [7]:
```
loc=r'E:\u\sem1\cv\aat2\question2\buildingsSet4'
image_paths=[loc+r'\urbanlife1.jpg',loc+r'\urbanlife2.jpg',loc+r'\urbanlife3.jpg']
image_dest=r'E:\u\sem1\cv\aat2\question2\buildingsSet4'
pan_stich(image_paths,image_dest)
```

```
The panaromic output is stored in E:\u\sem1\cv\aat2\question2\buildingsSet4\out.jp
g
```

In [8]:
```
loc=r'E:\u\sem1\cv\aat2\question2\buildingsSet5'
image_paths=[loc+r'\Art and humanities01_team6.jpg',loc+r'\Art and humanities02_tea
```

```
image_dest=r'E:\u\sem1\cv\aat2\question2\buildingsSet5'
pan_stich(image_paths,image_dest)
```

```
The panaromic output is stored in E:\u\sem1\cv\aat2\question2\buildingsSet5\out.jp
g
```