

## **REPORT**

### **Ques1-**

Class PanaromaStitcher()-

Following Methods are provided in this class module-

1. FindCorrespondence(ImagePair, Algo,ratio)- equip object with self.ptsA and self.ptsB, the corresponding points.
2. FindHomographyMatrix()- Finds Homography matrix and set it as a attribute of object and returns it also.
3. ImageStitcher(stitch='L')- Stitches image to left (Right if stitch='R') and returns Warped Image

Other Functions-

1. blurIfZero()- Blurs the pixel if it zero, Gives smoothened image
2. ReadAllImages()- Read Image into list serially from folder Images which should be in directory.
3. inbuiltFuncPanaroma()- Generates panaroma using Inbuilt function.

### **Ques2-**

findHomographyDepth()- Extend above class methods to find depthwise H-matrix

DepthWarp()- Quantize image in 6 levels and find H-matrix for each level. Return H as dictionary and Warped Image.

Note- refer result Folder for results.