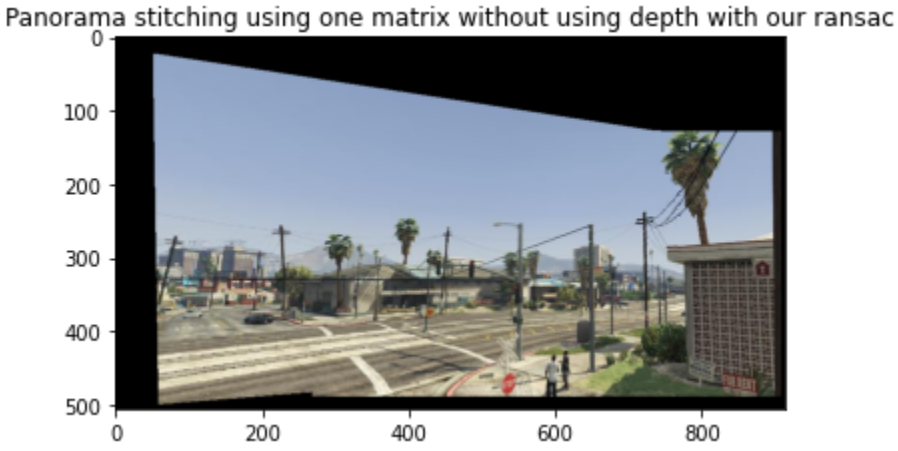
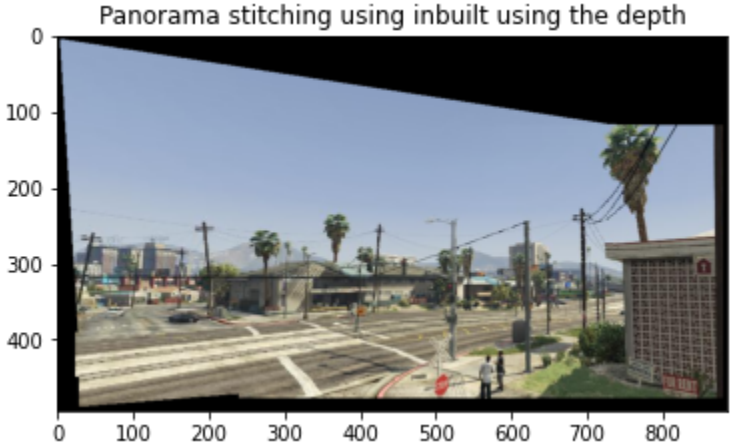
Qa)--
We have detected and extracted the features using the sift feature detector.
Qb and c)--
As per suggestion we have quantized the image into 5 parts and then calculated the homography matrix for each kind of point after separating.

Qd)---.
We have used the last assignment's RANSAC algorithm

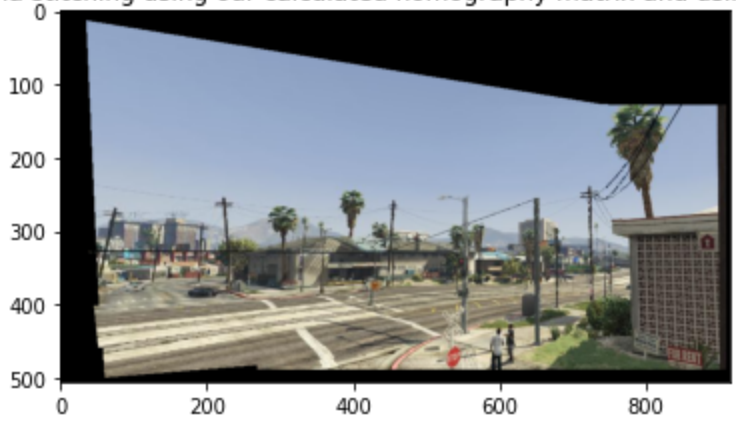
Qe and f)---.
Here we just need to use the appropriate matrix and then we have to calculate the new position in order to make the transformations.

Here are the three results when 1st image used for depth and second image for the source-

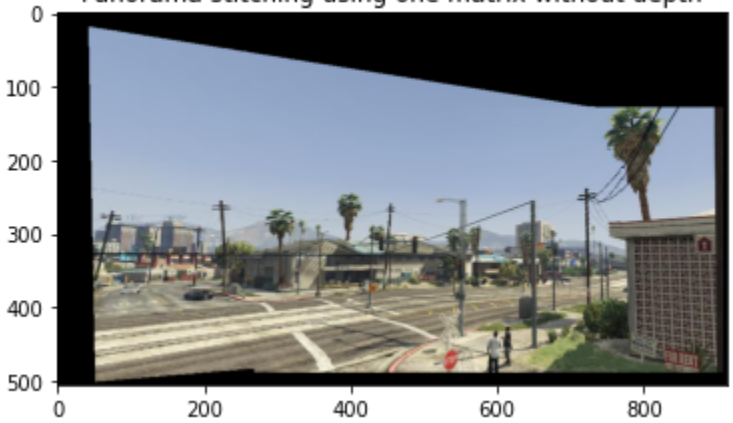




Panorama stitching using our calculated homography matrix and using the depth

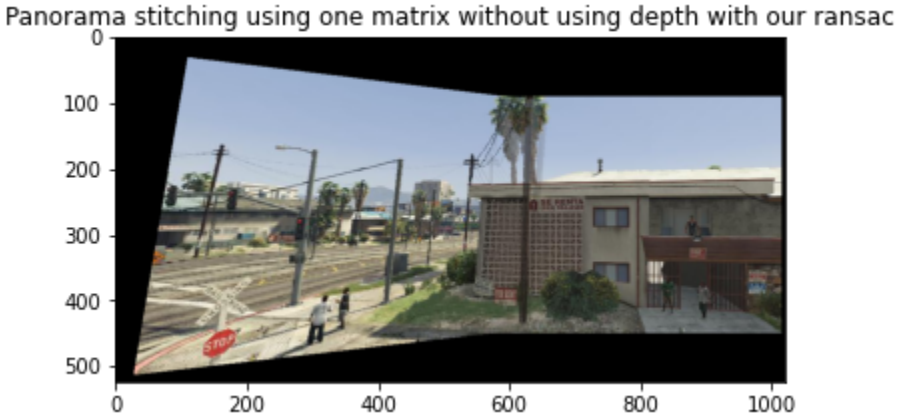


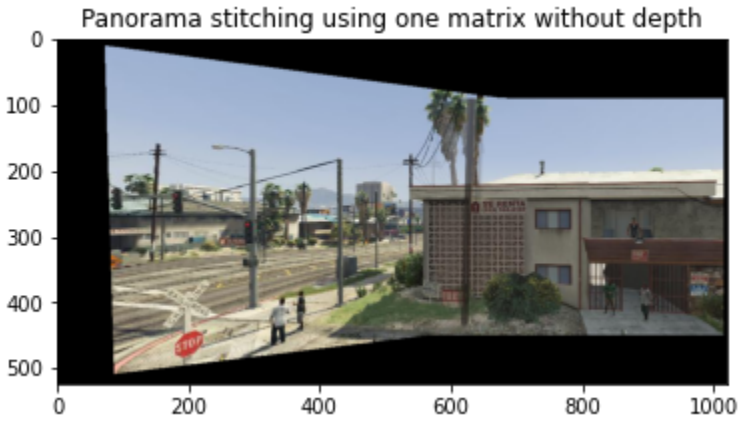
Panorama stitching using one matrix without depth



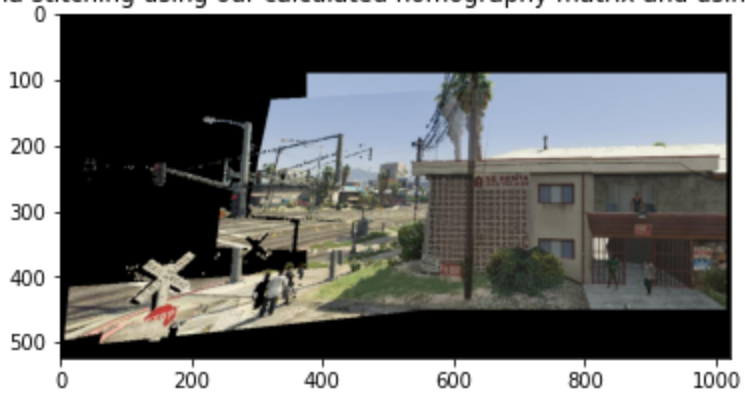
Third one for depth and 4th as source

-

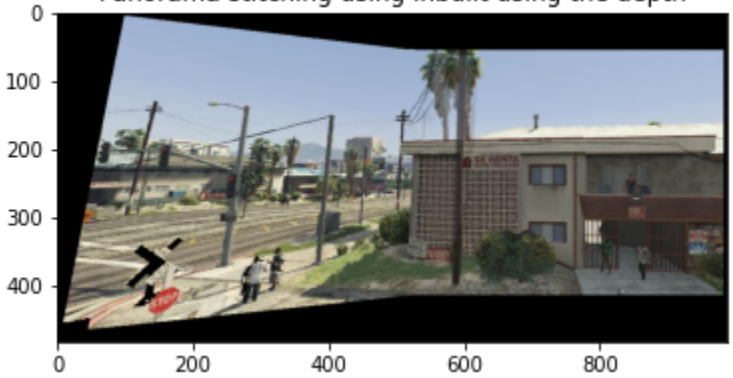




Panorama stitching using our calculated homography matrix and using the depth

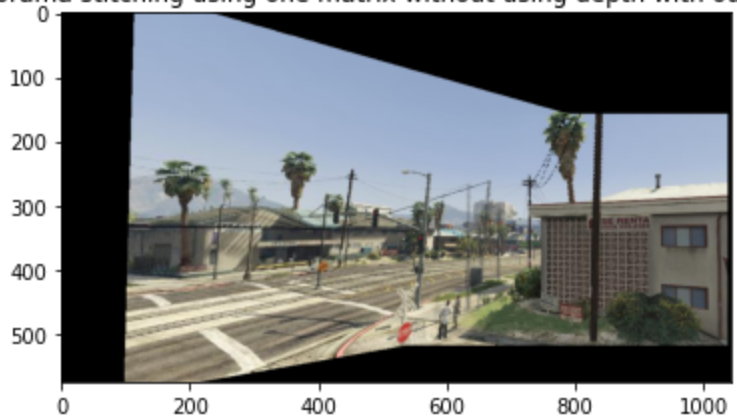


Panorama stitching using inbuilt using the depth

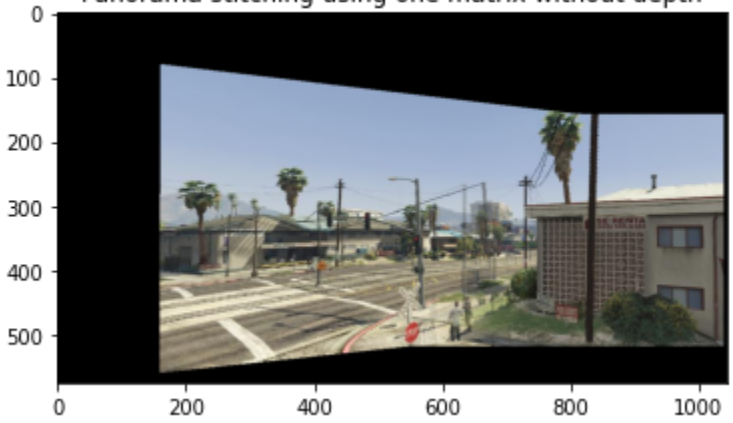


2nd and 3rd image-

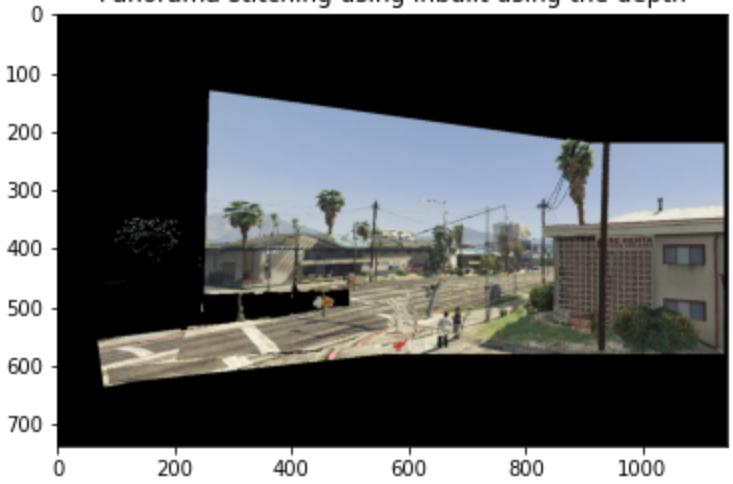
Panorama stitching using one matrix without using depth with our ransac



Panorama stitching using one matrix without depth



Panorama stitching using inbuilt using the depth



Panorama stitching using our calculated homography matrix and using the depth