

Computer Vision Run A2 Application

make all

For giving images input please don't include the folder path. Just provide the images name.

Example:

```
./a2 part1 <image-name.jpg> <image-name.jpg> ....
```

```
./a2 part1 bigben_18.jpg bigben_19.jpg
```

Part1 & Part2 Will pick the Images from the images/part1_images folder

Part3 Will pick the Images from the images/part3_images folder

The application itself will pick the images from the predefined folder path in constants.h file, which you can change and make the application again.

To run part1

```
./a2 part1 image1 image2
```

```
./a2 part1 images ...
```

To run part2

```
./a2 HMPart2 image1 image2
```

```
./a2 part2 image1 image2
```

To run part3

```
./a2 part3 lincoln.png
```

```
./a2 part3 base_image images...
```

All results that are related to Part1 (SIFT matching by drawing lines goes in folder)
/gdhody-wsbabcoc-ramrao-a2/part1-matches

All results that are related to Part2 (RANSAC speedup)
/gdhody-wsbabcoc-ramrao-a2/part2-ransac

All results that are related to Part3 (Warped Images)
/gdhody-wsbabcoc-ramrao-a2/part3-transformations

All previous Run results will be found in the
/gdhody-wsbabcoc-ramrao-a2/results

To help you run some test we have created some shell scripts:

Script to run Image Matching with one random Image from part1 with respect to all images and output results in the results folder with Results_<random_image_name.jpg>.txt

`./multi-run-part1-script.sh`

`./run-command.sh`

Script to run Wrapping Application

`./transformation-application.sh` To run on notredam images

`./transformation-lincoln-script.sh` To run on lincoln images