

1. Stereo Vision

MSE for disparity map left to right, and block size =3 is **395.435520402**

MSE for disparity map right to left, and block size =3 is **448.121032047**

MSE for disparity map left to right, and block size =7 is **324.393724826**

MSE for disparity map left to right, and block size =7 is **324.393724826**

MSE for disparity map left to right, and block size =9 is **312.786895102**

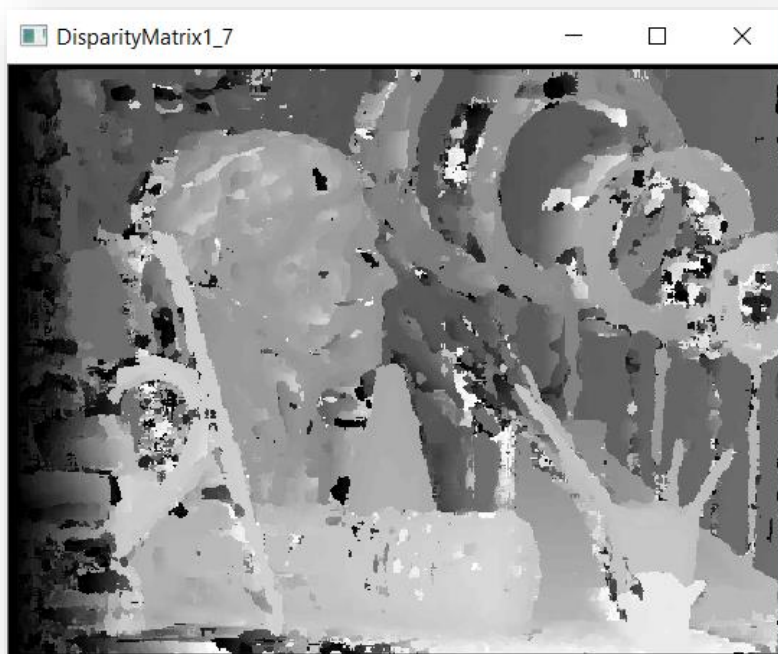
MSE for disparity map right to left, and block size =9 is **190.651281303**



MSE for disparity map
left to right, and block
size =3 is
395.435520402



MSE for disparity map
right to left, and block
size =3 is
448.121032047



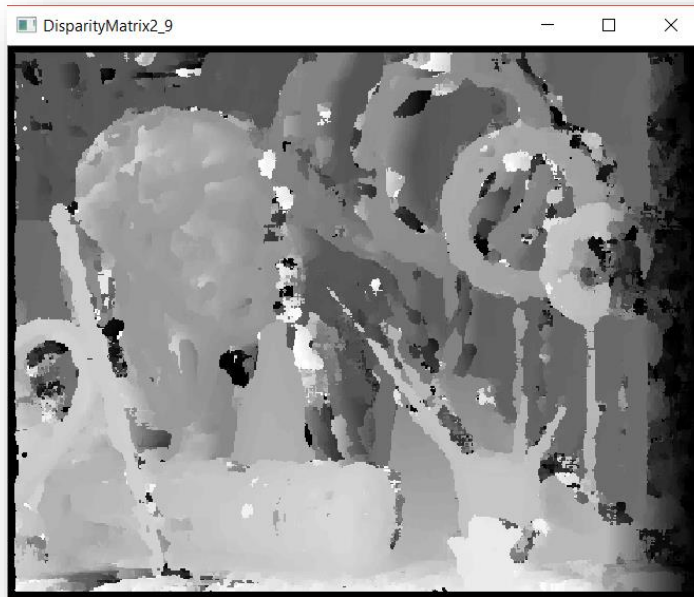
MSE for disparity map
left to right, and block
size =7 is
324.393724826



MSE for disparity map
left to right, and block
size =7 is
258.393724826



MSE for disparity map
left to right, and block
size =9 is
312.786895102



MSE for disparity map
right to left, and block
size =9 is
190.651281303

Consistency check :

MSE for consistency check using left disparity image and block size = 3 is 93.054042275005443

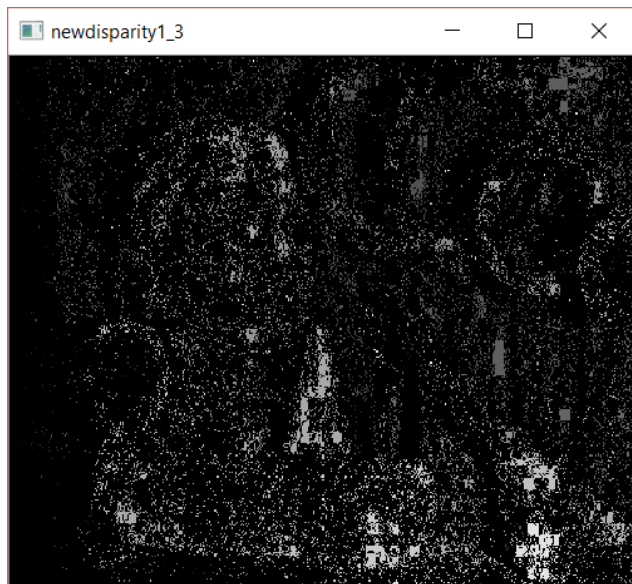
MSE for consistency check using right disparity image and block size = 3 is 79.094551779834745

MSE for consistency check using left disparity image and block size = 7 is 26.557056456984519

MSE for consistency check using right disparity image and block size = 7 is 24.993269521879878

MSE for consistency check using left disparity image and block size = 9 is 21.260088518614943

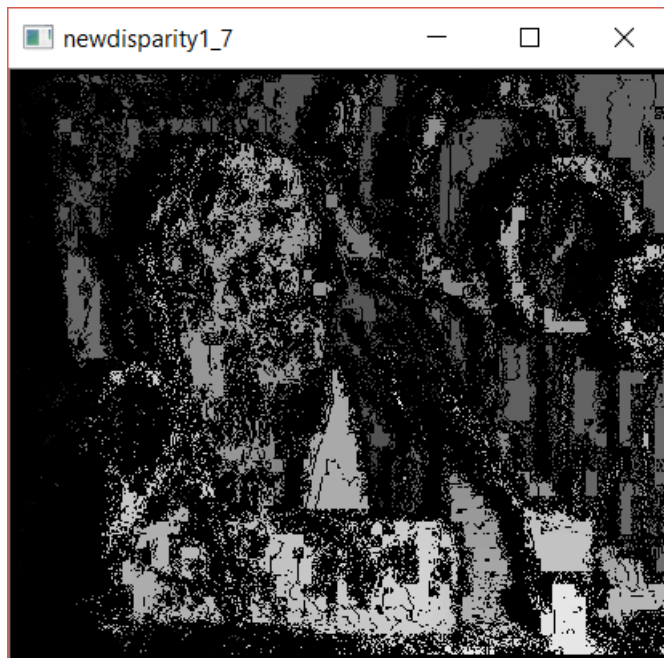
MSE for consistency check using right disparity image and block size = 9 is 21.265929416290028



**MSE for consistency check using left
disparity image and block size = 3 is
93.054042275005443**



**MSE for consistency check using
right disparity image and block size =
3 is 79.094551779834745**



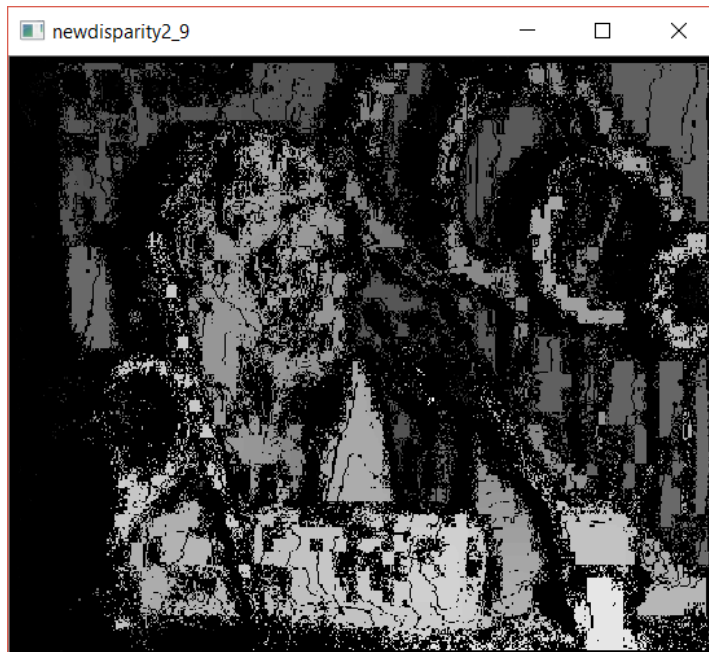
**MSE for consistency check using left
disparity image and block size = 7 is
26.557056456984519**



**MSE for consistency check using
right disparity image and block size =
7 is 24.993269521879878**



**MSE for consistency check using left
disparity image and block size = 9 is
21.260088518614943**

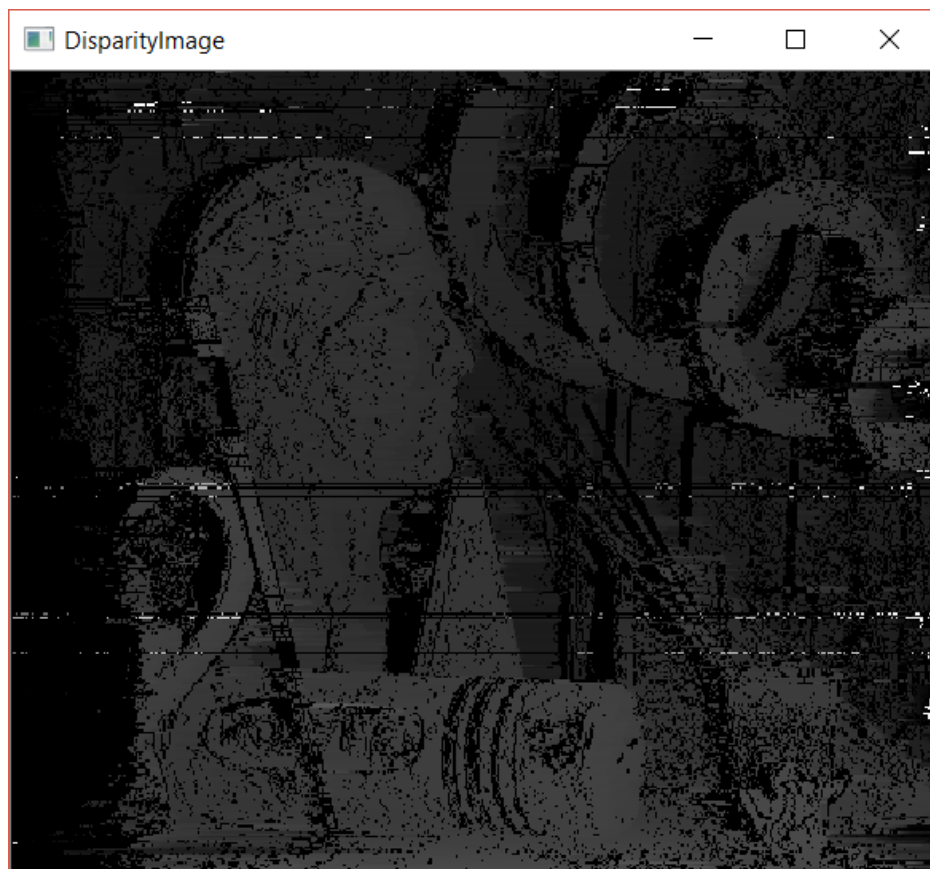


**MSE for consistency check using
right disparity image and block size =
9 is 21.265929416290028**

Stereo vision result:

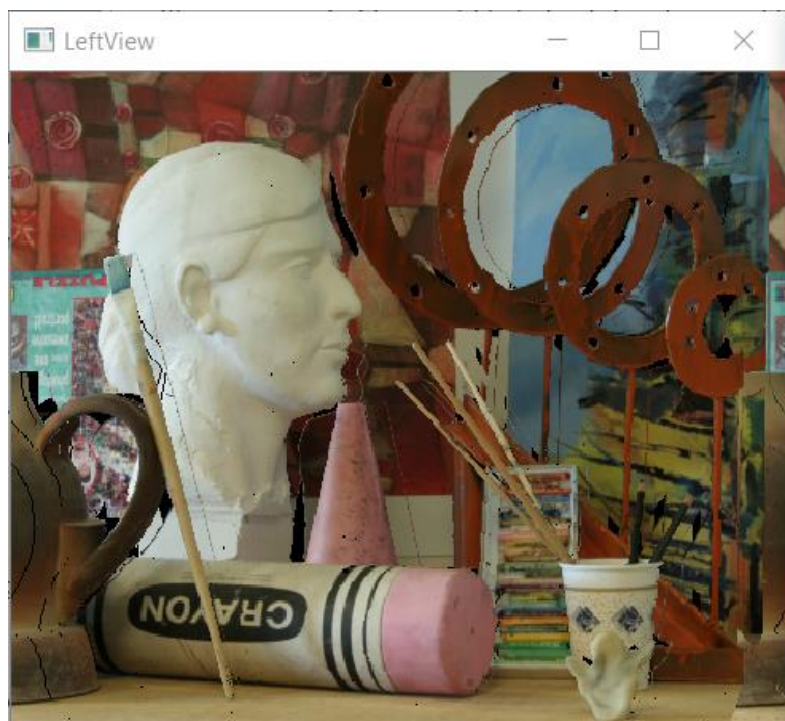
| Block size | MSE(Left Disparity) | MSE(Right Disparity) | MSE(Left Disparity) using Back propogation | MSE(Right Disparity) using Back propogation |
|------------|---------------------|----------------------|--|---|
| 3x3 | 395.43 | 448.12 | 93.05 | 79.09 |
| 7x7 | 324.39 | 258.39 | 26.55 | 24.99 |
| 9x9 | 312.78 | 190.65 | 21.260 | 21.265 |

Dynamic progeaming

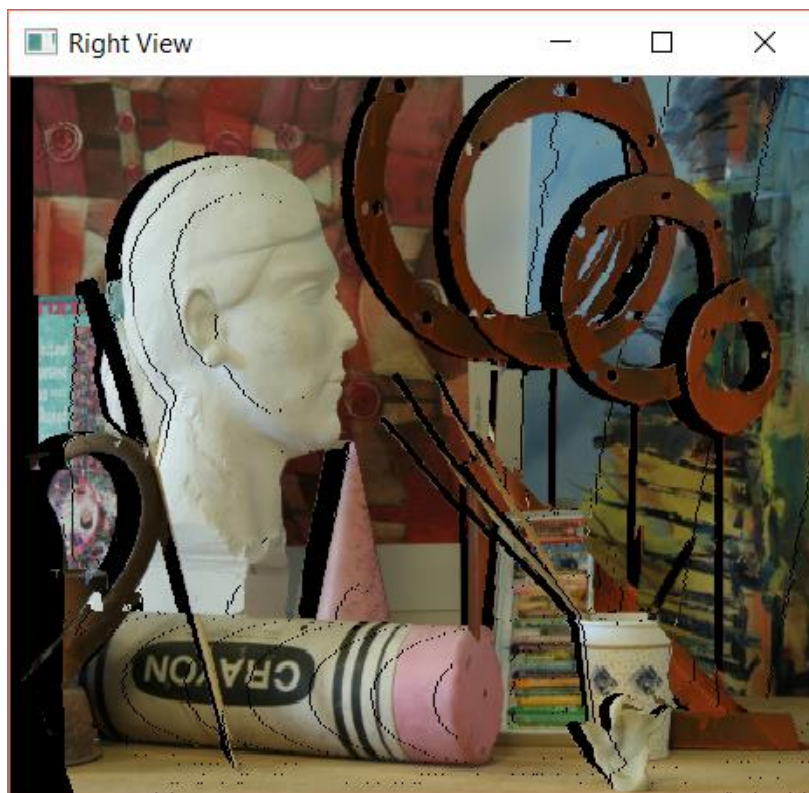




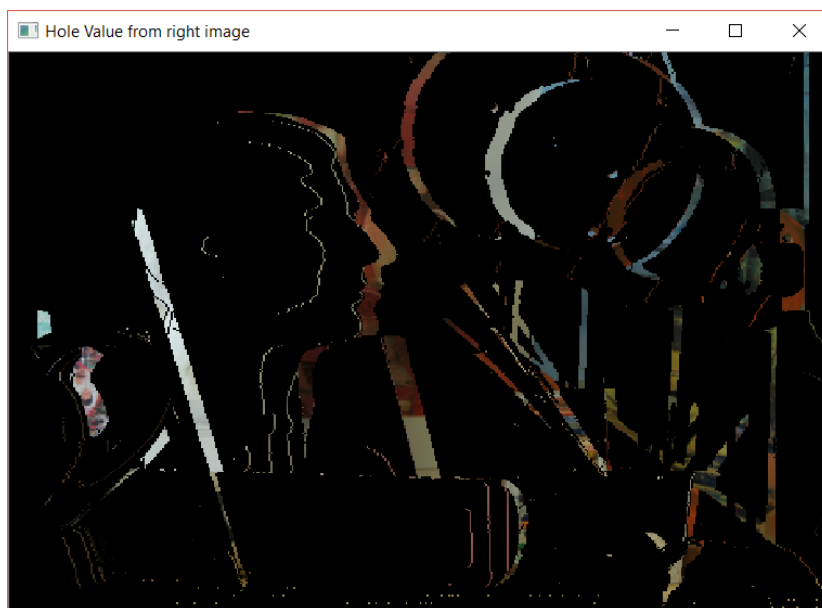
View Synthesis



Synthesized view from left image
and its disparity

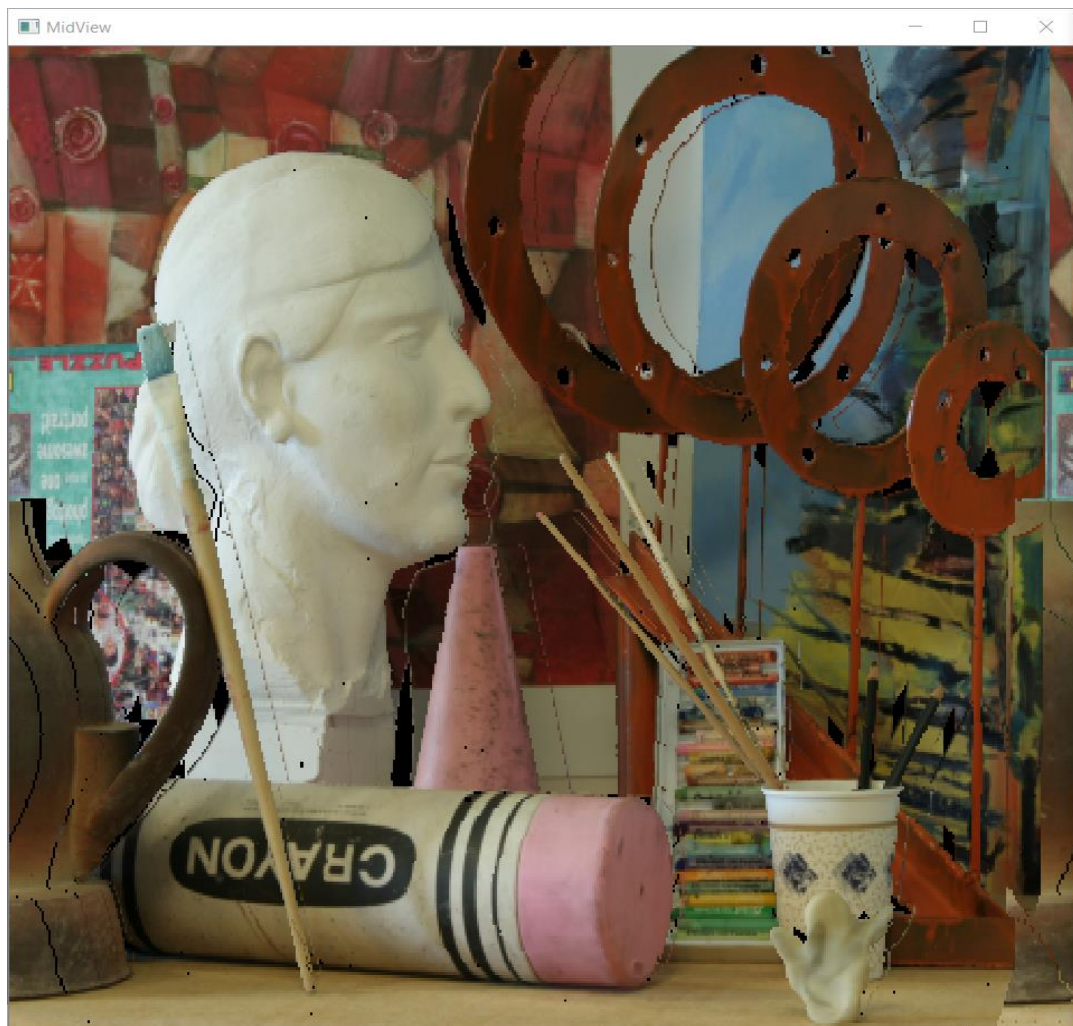


**Synthesized view from right image
and its disparity**



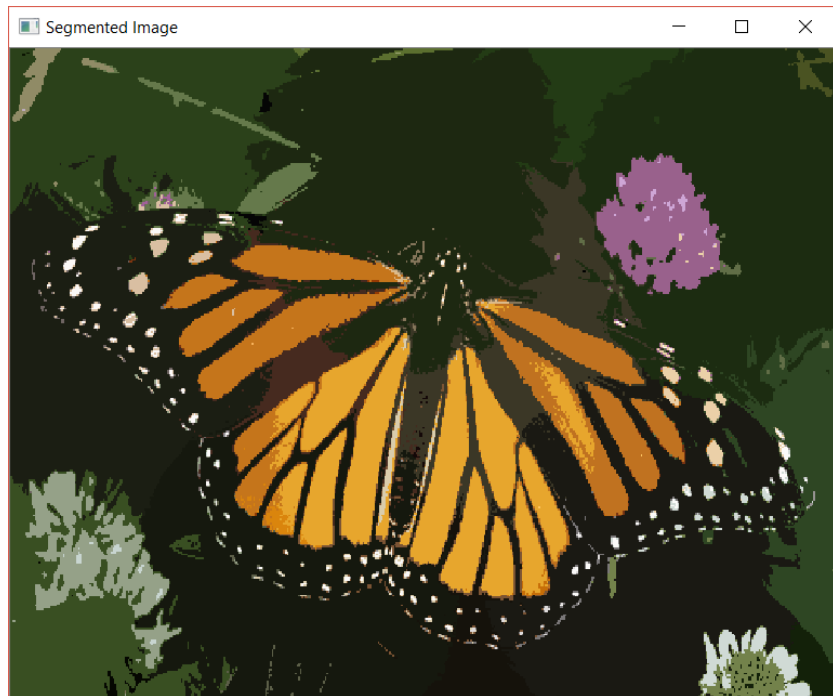
**Value at the holes obtained from
right image.**

Result : View synthesis by first obtaining the shifted view from left image and its disparity .Then filling the holes by right image

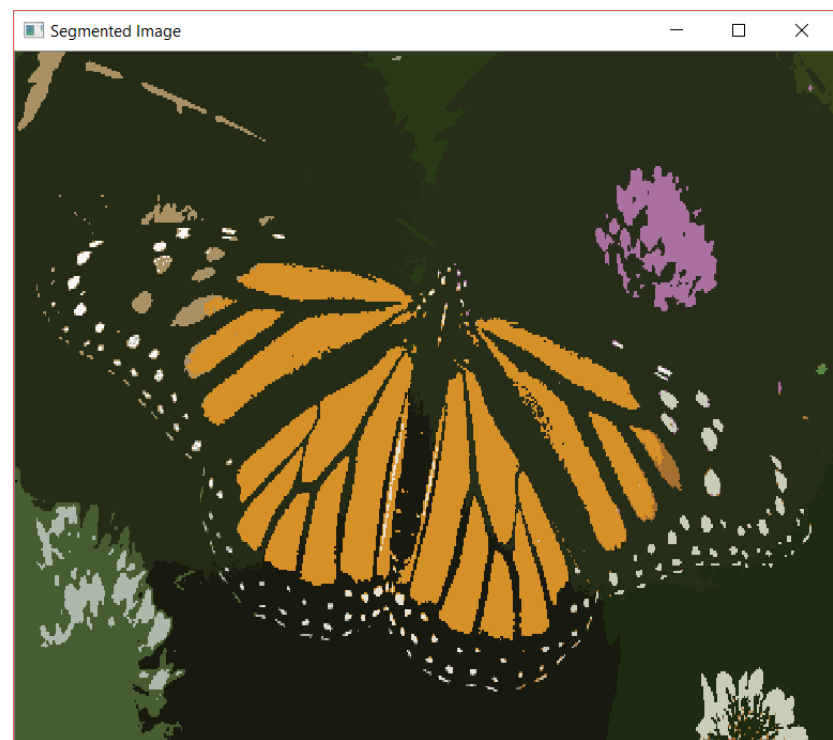


Mean Shift segmentation :

1) $H=100$ Iter=4



2) $H=150$ Iter=3



3) H=150, Iter=10

