Report for Exercise 1

Mutaz Manaa

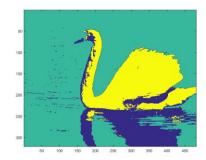
ID: 200750453

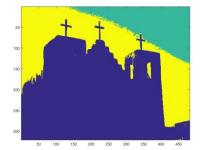
Mutazmanaa

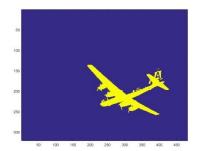
Result for Part2:

Parameters:

```
num_runs = 18;
change_thresh = 1;
max_iter = 180;
u = 0;
```

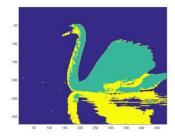






Parameters:

```
num_runs = 18;
change_thresh = 1;
max_iter = 180;
u = 0.025;
```



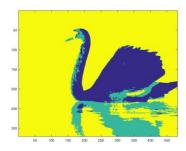




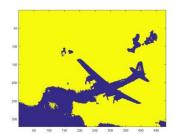
results for BonusPart1:

I choose to add a feture called isEdge but I didn't see any thing new in the clustering then I choose to add intensities values feture with the RGB form. Parameters:

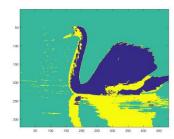
```
num_runs = 18;
change_thresh = 1;
max_iter = 180;
u = 0;
```



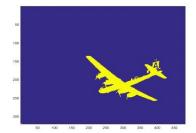




```
num_runs = 18;
change_thresh = 1;
max_iter = 180;
u = 0.025;
```

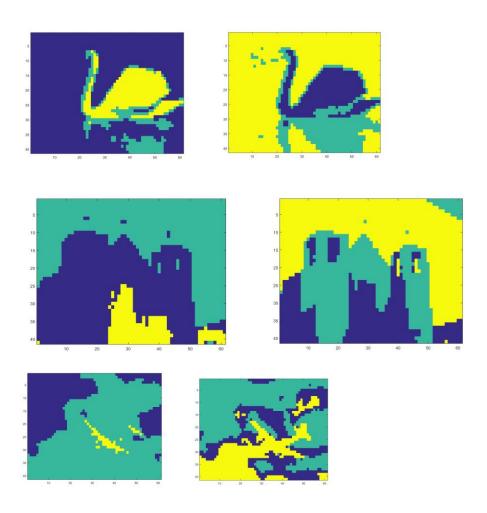






Results for Part4:

Imagenum	1	2	3	4	5	6
segmac	9	9	5	22	5	18
segmas	10	12	7	85	27	990
k	3	3	3	3	3	3
algo	rc	rc	rc	nc	nc	nc
factor	1/8	1/8	1/8	1/8	1/8	1/8



The left column is the rc algorithm and the left column is the nc algorithm

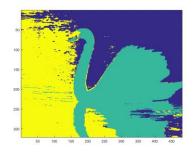
The inputs of th KMEANS:

```
num_runs = 15;
change_thresh = 1;
max_iter = 95;
```

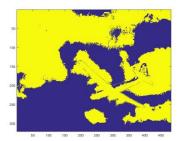
Results for Part5:

I tried almost same parameters as Part4

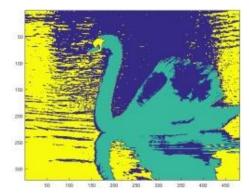
For n = 50:

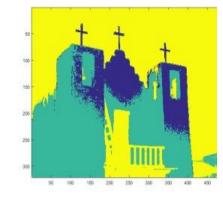


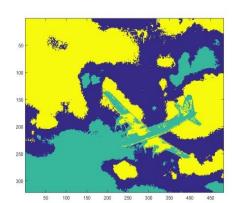




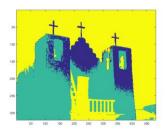
For n = 100:

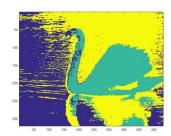


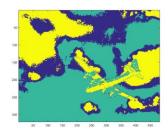




For n = 200:







For n = 400:

