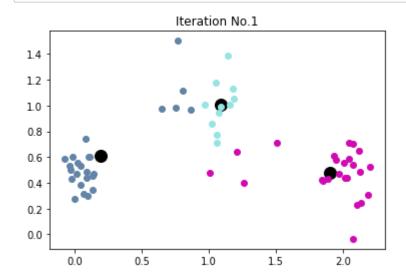
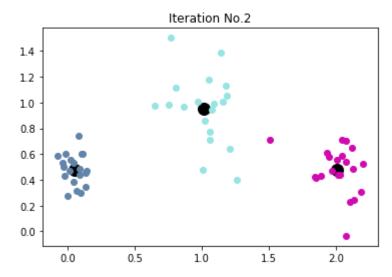
In [ ]: # %Load '/src/faces.py'
/src/faces.py
In [ ]: # %Load '/src/faces.py'
/src/faces.py

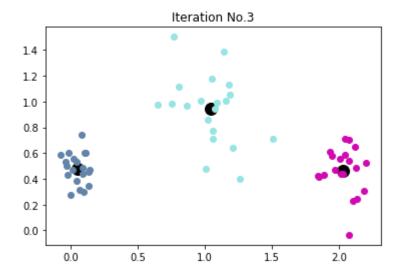
In [16]: %run ./src/faces.py
# part (d)



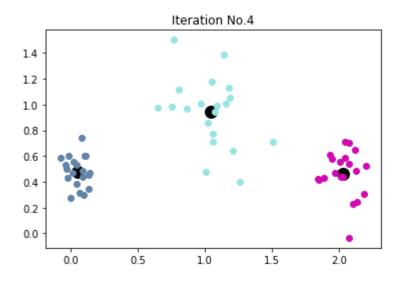
center for iteration1: [array([ 1.089668 , 1.00424282]), array([ 1.90010446, 0.48090448]), array([ 0.1929823 8, 0.60641572])]



center for iteration2: [array([ 1.01605529, 0.95288767]), array([ 2.00594139, 0.47723895]), array([ 0.0491797
4, 0.4810944 ])]

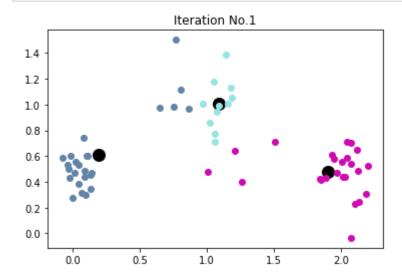


center for iteration3: [array([ 1.04063507, 0.9409604 ]), array([ 2.03085592, 0.46538378]), array([ 0.04917974, 0.4810944 ])]

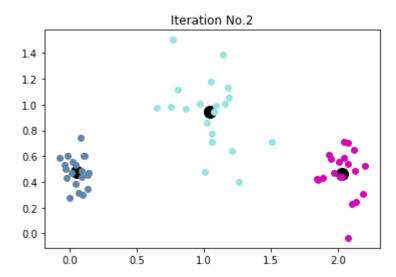


center for iteration4: [array([ 1.04063507, 0.9409604 ]), array([ 2.03085592, 0.46538378]), array([ 0.0491797 4, 0.4810944 ])]

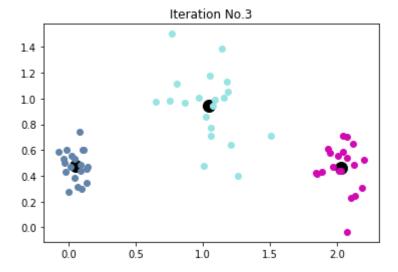
In [17]: %run ./src/faces.py
# part e



center for iteration1: [array([ 1.08850508, 0.99112174]), array([ 1.96941007, 0.47267369]), array([ 0.0863717 3, 0.48779084])]

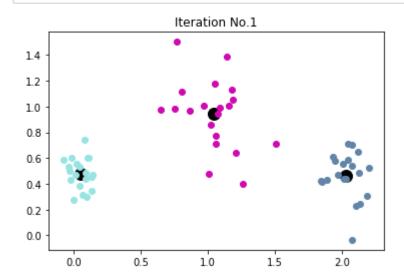


center for iteration2: [array([ 1.07699221, 0.94787531]), array([ 2.01197635, 0.44000531]), array([ 0.0124713, 0.46772052])]

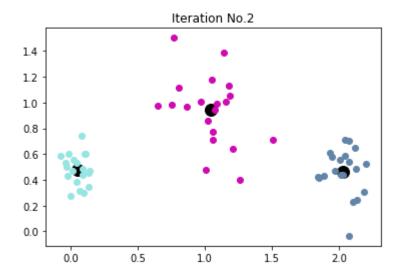


center for iteration3: [array([ 1.07699221, 0.94787531]), array([ 2.01197635, 0.44000531]), array([ 0.0124713, 0.46772052])]

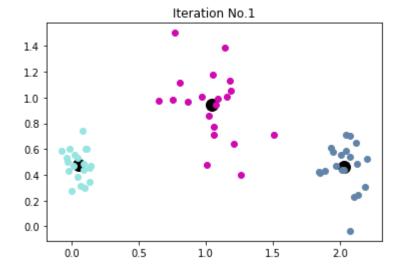
```
In [18]: %run ./src/faces.py
# part f
# first 2 graphs for kMeans
# Later 2 graphs for kMedoids
```



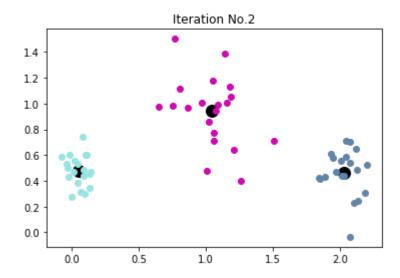
center for iteration1: [array([ 0.04917974, 0.4810944 ]), array([ 1.04063507, 0.9409604 ]), array([ 2.0308559 2, 0.46538378])]



center for iteration2: [array([ 0.04917974, 0.4810944 ]), array([ 1.04063507, 0.9409604 ]), array([ 2.0308559
2, 0.46538378])]



center for iteration1: [array([ 0.0124713 , 0.46772052]), array([ 1.07699221, 0.94787531]), array([ 2.01197635, 0.44000531])]



center for iteration2: [array([ 0.0124713 , 0.46772052]), array([ 1.07699221, 0.94787531]), array([ 2.0119763 5, 0.44000531])]

In [ ]: