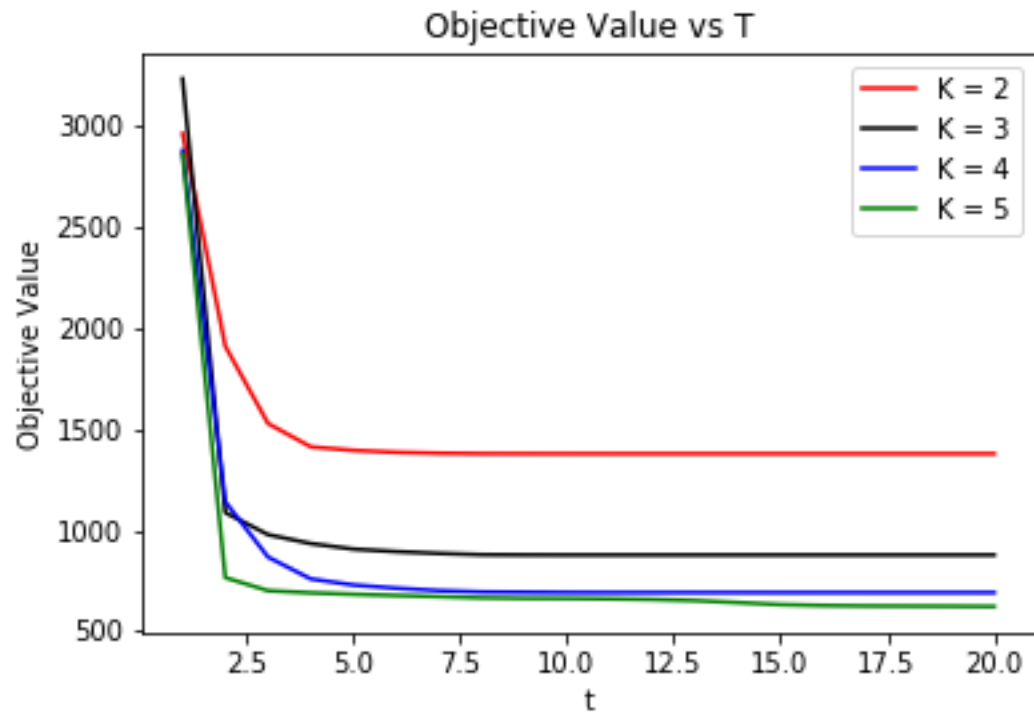


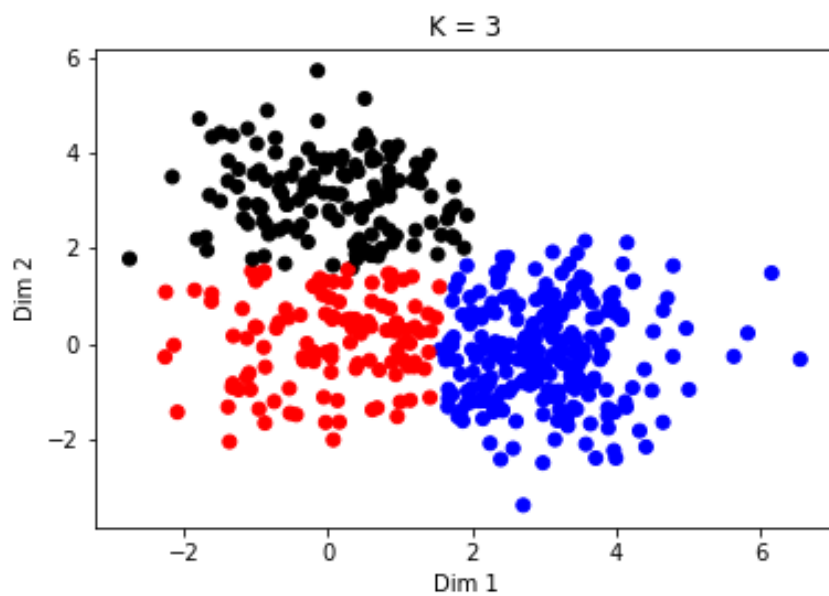
Arsalaan Ansari (aaa2325)

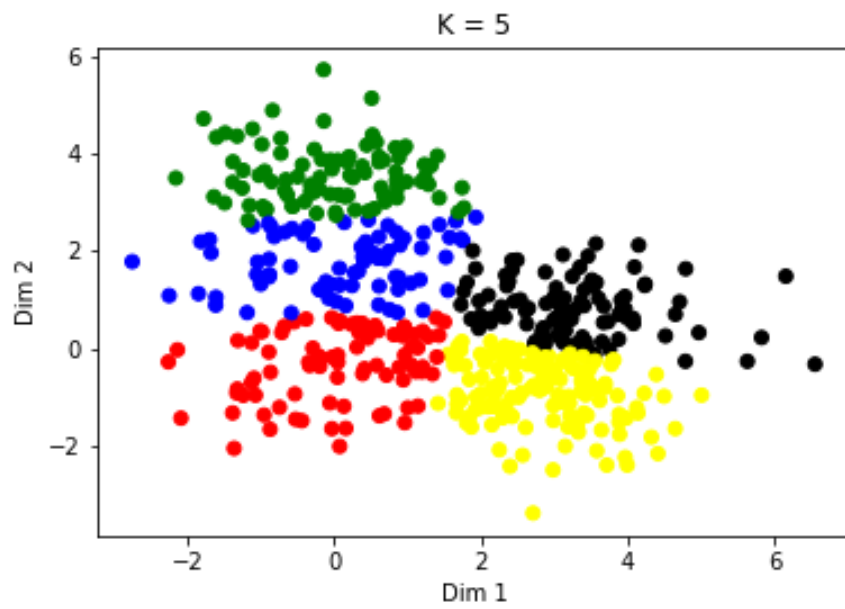
HW 4

Problem 1a)

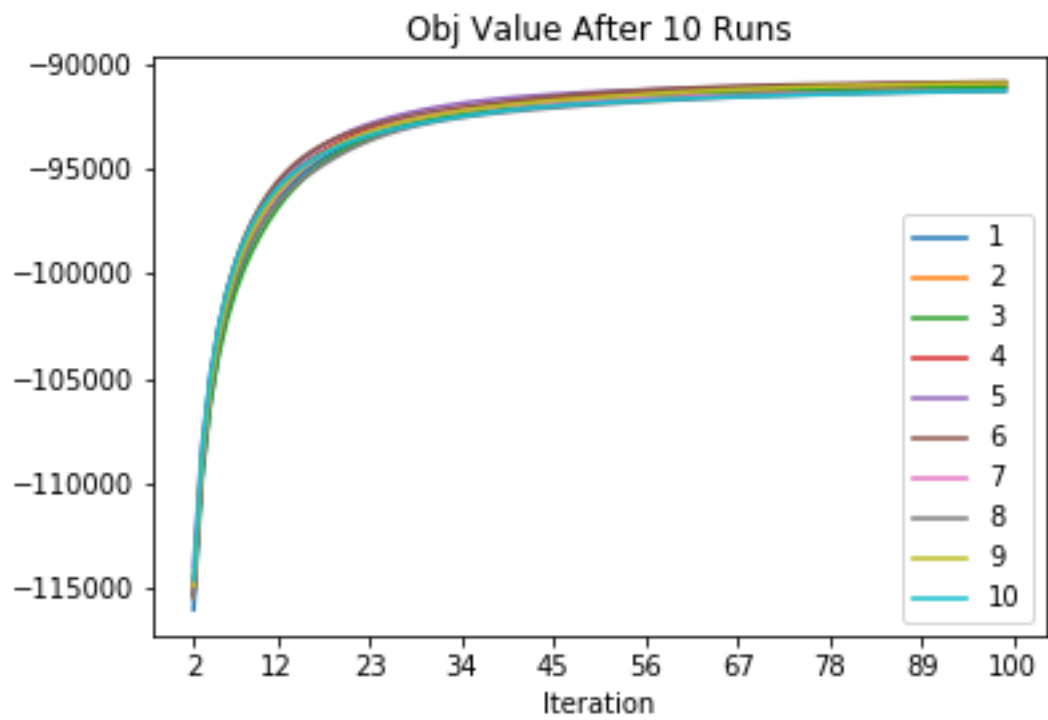


Problem 1b)





Problem 2a)



iter	objective	testRSME
6	-90866.5	1.12507
5	-90917.7	1.12871
4	-90918.2	1.13025
9	-90937.8	1.11918
3	-91101.1	1.12356
1	-91125.1	1.12092
2	-91133.4	1.09794
7	-91283.1	1.13065
10	-91291	1.10263
8	-91309.7	1.10439

Problem 2b)

10 closest Movies with distances:

Star Wars: Distance	My Fair Lady: Distance	Goodfellas: Distance
Empire Strikes Back, The (1980): 0.311447	Sound of Music, The (1965): 0.571044	Full Metal Jacket (1987): 0.685489
Return of the Jedi (1983): 0.608870	Victor/Victoria (1982): 0.738695	Apocalypse Now (1979) : 0.726574
Raiders of the Lost Ark (1981): 0.632709	Sabrina (1954) 0.845459	Shining, The (1980): 0.760094
Usual Suspects, The (1995): 0.706876	Beauty and the Beast (1991): 0.851743	Once Upon a Time in the West (1969): 0.810819
Princess Bride, The (1987): 0.823608	Cinderella (1950): 0.973586	Godfather: Part II, The (1974): 0.849388
Manon of the Spring (Manon des sources) (1986): 0.827772	American in Paris, An (1951) 0.975458	Bonnie and Clyde (1967) : 0.849582
My Man Godfrey (1936): 0.911561	Return of Martin Guerre, The (Retour de Martin...: 0.977926	Cool Hand Luke (1967) : 0.873371
Blues Brothers, The (1980) : 0.912880	Parent Trap, The (1961) : 1.012469	Good, The Bad and The Ugly, The (1966) : 0.890342
Terminator, The (1984): 0.927361	Winnie the Pooh and the Blustery Day (1968): 1.013403	Short Cuts (1993) 0.895831
Indiana Jones and the Last Crusade (1989): 0.938632	Mary Poppins (1964): 1.036256	Casino (1995) : 0.920561