<u>Korneliyk Dima</u>   *Artificial Intelligence*

Lab_4 by

Contemporary Intelligent Information Technology (CIIT)

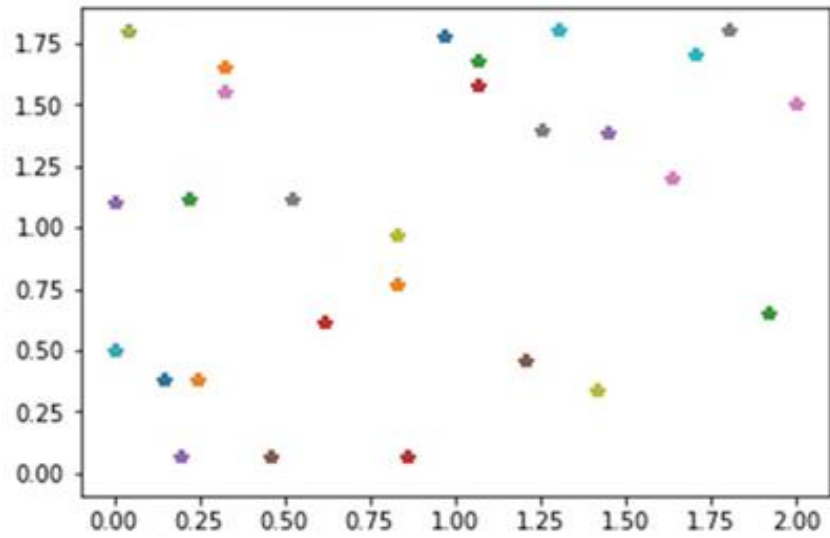Dimension reduction (7D to 2D)
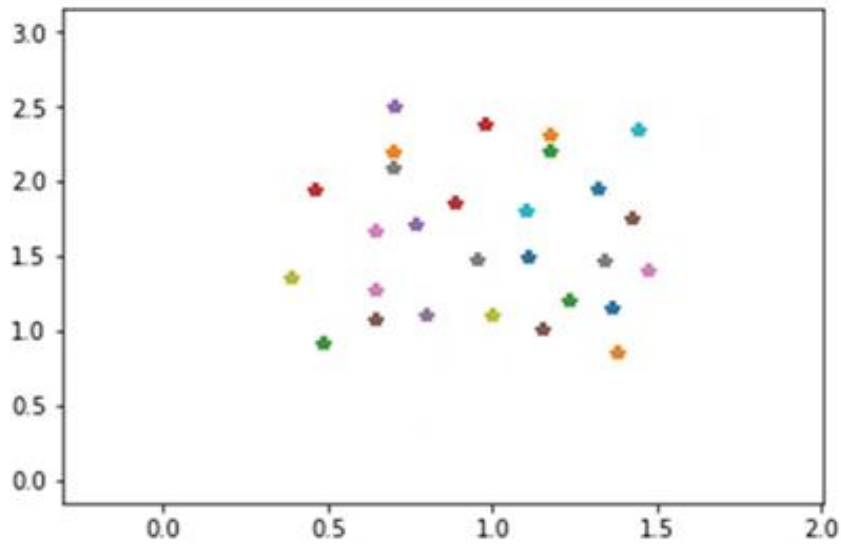
Number of chromosomes = 30

Genes in each chromosomes = 7

Distance matrix:

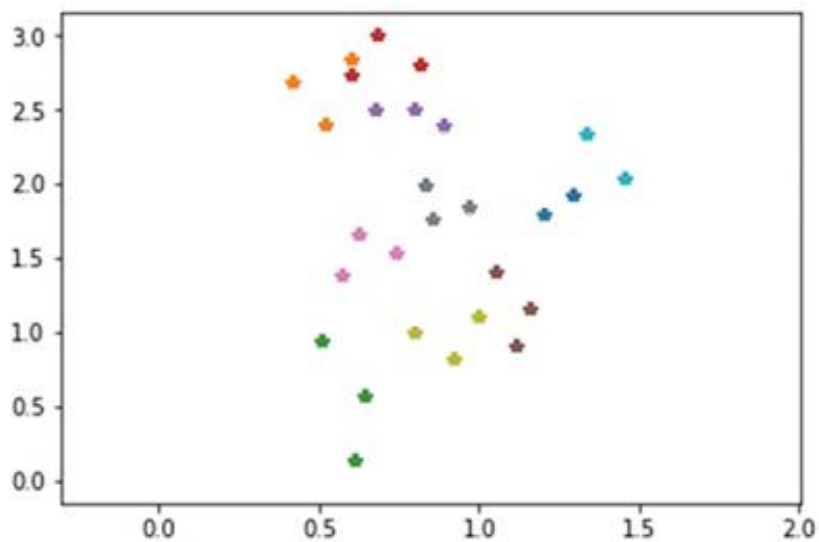|									
1,515888	12,87795	3,43036	1,40066	73,282	0,68931	8,04468	0	0,1224	1
1,517642	12,9777	3,53812	1,21127	73,002	0,65205	8,52888	0	0	1
1,52213	14,20795	3,82099	0,46976	71,77	0,11178	9,5726	0	0	1
1,522221	13,21045	3,7716	0,79076	71,9884	0,13041	10,2452	0	0	1
1,517551	13,39	3,65935	1,1888	72,7892	0,57132	8,27064	0	0,0561	1
1,516458	13,40995	3,55159	1,24979	72,8116	0,6831	8,09848	0	0	2
1,516298	12,7117	3,33158	1,49054	73,282	0,67068	8,23836	0	0	2
1,527255	13,8023	3,15198	0,65915	70,5716	0,08073	11,63852	0	0	2
1,518918	13,46315	3,82997	1,25942	72,5484	0,57132	8,20608	0	0,0714	2
1,518713	12,93115	3,65935	1,56116	72,5092	0,57753	8,5504	0	0,0612	2
1,517756	13,52965	3,40791	1,51943	72,0388	0,57753	8,78712	0	0	3
1,516093	13,33015	3,52914	1,33967	72,6716	0,5589	8,3352	0	0	3
1,51664	13,1373	3,44832	1,76018	72,4812	0,60237	8,37824	0	0,0867	3
1,521219	14,0284	3,75813	0,5789	71,7924	0,11178	9,64792	0	0	3
1,516458	13,03755	3,39893	1,25942	73,0076	0,52164	8,58268	0	0	3
1,521196	12,97105	0,32777	1,5098	73,3884	0,13041	11,27268	0	0,1428	5
1,521515	11,02925	1,71069	1,56116	73,4388	0,57753	11,617	0	0	5
1,5132	12,99765	0	3,0185	70,7004	6,21	6,92564	0	0	5
1,516663	12,858	0	1,8308	73,8812	0,96876	10,17516	0	0	5
1,523679	13,4432	0	1,58042	72,218	0,32292	12,24108	0	0	5
1,519693	14,5604	0	0,55964	73,478	0	11,21888	0	0	6
1,51115	17,38	0	0,34136	75,41	0	6,64588	0	0	6
1,519374	13,789	2,41113	1,1888	72,7612	0	9,76628	0	0	6
1,51828	14,46065	2,24051	1,61894	72,3804	0	9,26056	0	0	6
1,518531	14,08825	2,19112	1,66067	72,6716	0	9,32512	0	0	6
1,516526	11,94695	0	1,1888	75,1804	2,70135	8,927	0	0	7
1,520649	14,3609	0	2,02019	73,422	0	8,4428	1,64115	0	7
1,511309	13,68925	3,20137	1,81154	72,8116	1,75743	5,43	1,1907	0	7
1,515569	13,8688	0	2,54021	73,2316	0,14283	9,4112	0,80955	0,0051	7
1,516389	14,36755	0	2,73923	72,8508	0	9,45424	0,53865	0	7

My first generation:

My middle generation:

My last generation:

My fitness(fitness/iterations):