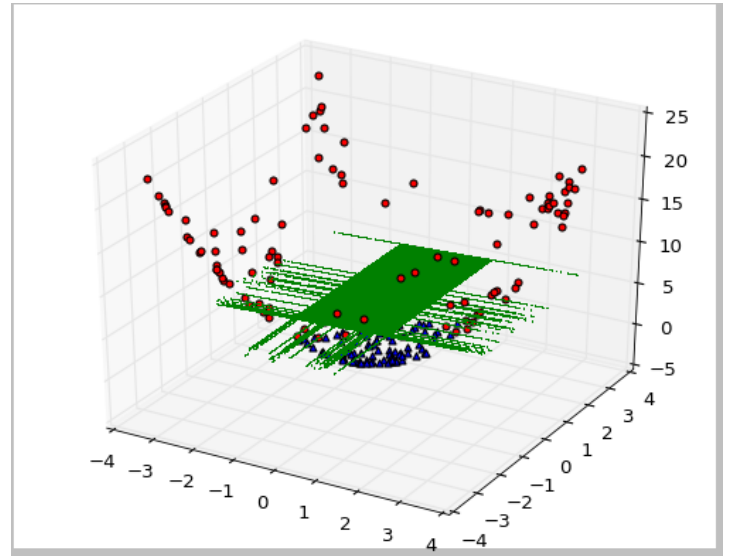
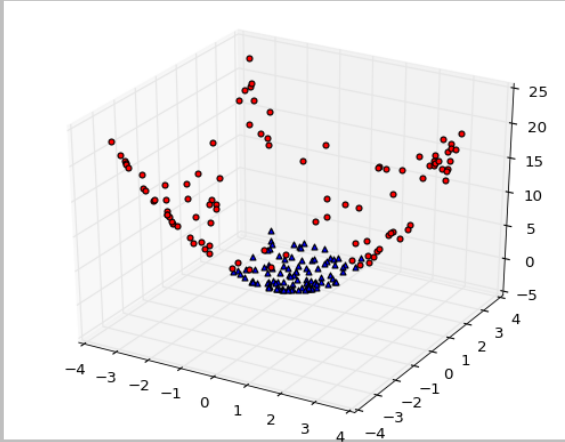


Q1: Kernel\_Trick

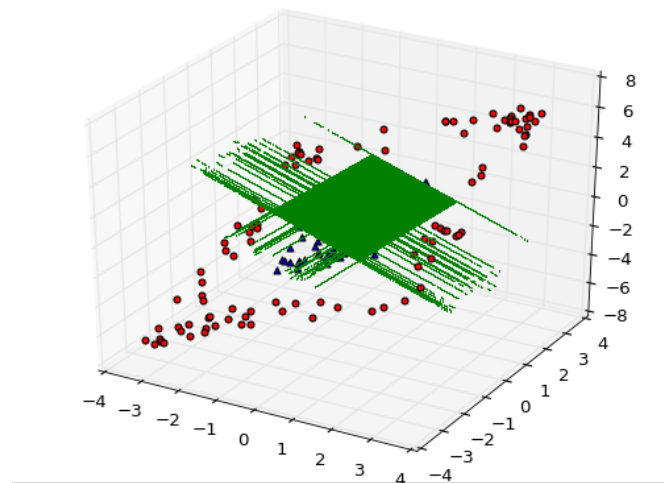
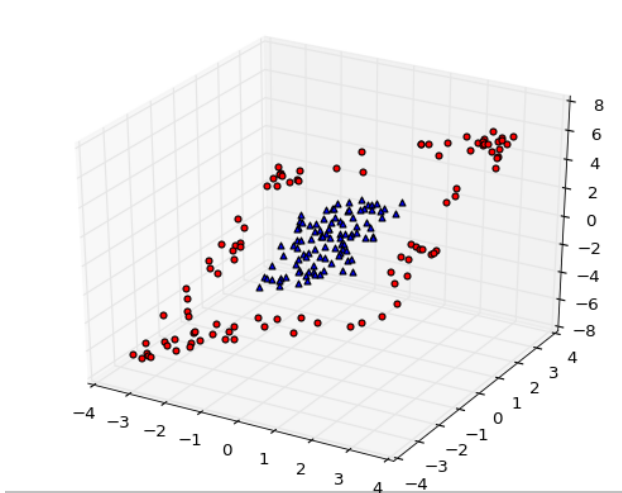
Kernel used:  $z = ((x^2) + (y^2))$

Accuracy = 1.00



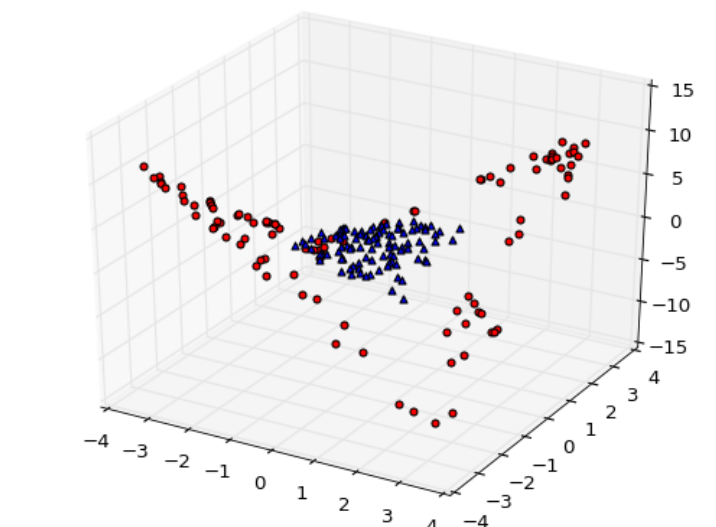
Kernel used:  $z = x + y$

Accuracy = 0.525

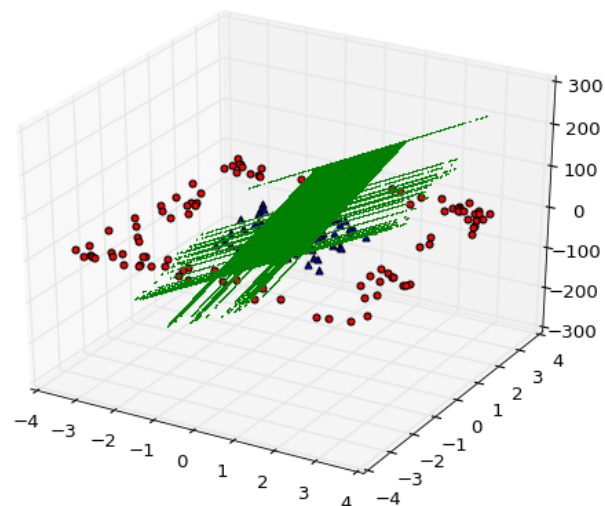


Kernel used:  $z = x * y$

Accuracy = 0.52



Kernel used:  $z = e^{(x^2 + y^2)}$   
Accuracy = 0.84



Q2: Letter\_Classification

linear	0.1	0.1	85.043	84.250	84.567	84.092	84.146
linear	0.1	1.0	86.957	86.250	86.483	86.149	86.189
linear	0.1	10.0	87.736	86.150	86.098	85.983	85.984
linear	0.1	100.0	88.250	84.700	85.004	84.548	84.646
linear	1.0	0.1	85.321	84.350	84.824	84.168	84.192
linear	1.0	1.0	87.071	84.950	84.993	84.827	84.847
linear	1.0	10.0	87.679	86.550	86.521	86.401	86.371
linear	1.0	100.0	88.450	84.900	85.199	84.804	84.842
linear	10.0	0.1	85.314	83.700	84.295	83.544	83.691
linear	10.0	1.0	87.057	85.450	85.769	85.303	85.400
linear	10.0	10.0	87.843	85.000	85.145	84.811	84.840
linear	10.0	100.0	87.864	87.300	87.557	87.153	87.203
linear	100.0	0.1	84.836	85.250	85.632	85.085	85.159
linear	100.0	1.0	87.029	85.150	85.282	84.965	84.965
linear	100.0	10.0	87.743	85.150	85.381	84.997	85.044
linear	100.0	100.0	88.314	85.700	85.920	85.573	85.636
poly	0.1	0.1	84.171	83.500	89.493	83.310	85.118
poly	0.1	1.0	96.007	91.850	92.768	91.789	92.035
poly	0.1	10.0	99.436	94.850	95.020	94.794	94.840
poly	0.1	100.0	99.964	94.850	94.906	94.801	94.812
poly	1.0	0.1	99.943	94.550	94.655	94.504	94.527
poly	1.0	1.0	100.000	94.150	94.250	94.123	94.141
poly	1.0	10.0	100.000	94.700	94.760	94.666	94.683
poly	1.0	100.0	100.000	94.750	94.776	94.731	94.726
poly	10.0	0.1	100.000	93.700	93.775	93.655	93.663
poly	10.0	1.0	100.000	93.400	93.481	93.379	93.394
poly	10.0	10.0	100.000	94.300	94.327	94.273	94.278
poly	10.0	100.0	100.000	94.350	94.518	94.324	94.374
poly	100.0	0.1	100.000	93.800	93.976	93.780	93.792
poly	100.0	1.0	100.000	94.350	94.426	94.324	94.332
poly	100.0	10.0	100.000	93.700	93.741	93.655	93.660
poly	100.0	100.0	100.000	95.000	95.086	94.974	94.982
rbf	0.1	0.1	87.179	86.100	87.172	85.918	86.142
rbf	0.1	1.0	97.243	95.050	95.193	95.004	95.050
rbf	0.1	10.0	99.743	97.900	97.945	97.883	97.893
rbf	0.1	100.0	100.000	97.250	97.262	97.240	97.234
rbf	1.0	0.1	79.136	69.450	93.402	69.047	76.322
rbf	1.0	1.0	99.943	94.300	95.491	94.259	94.600
rbf	1.0	10.0	100.000	93.900	95.120	93.850	94.212
rbf	1.0	100.0	100.000	92.150	93.871	92.100	92.631

Best result: kernel = rbf, gamma = 0.1 c = 100