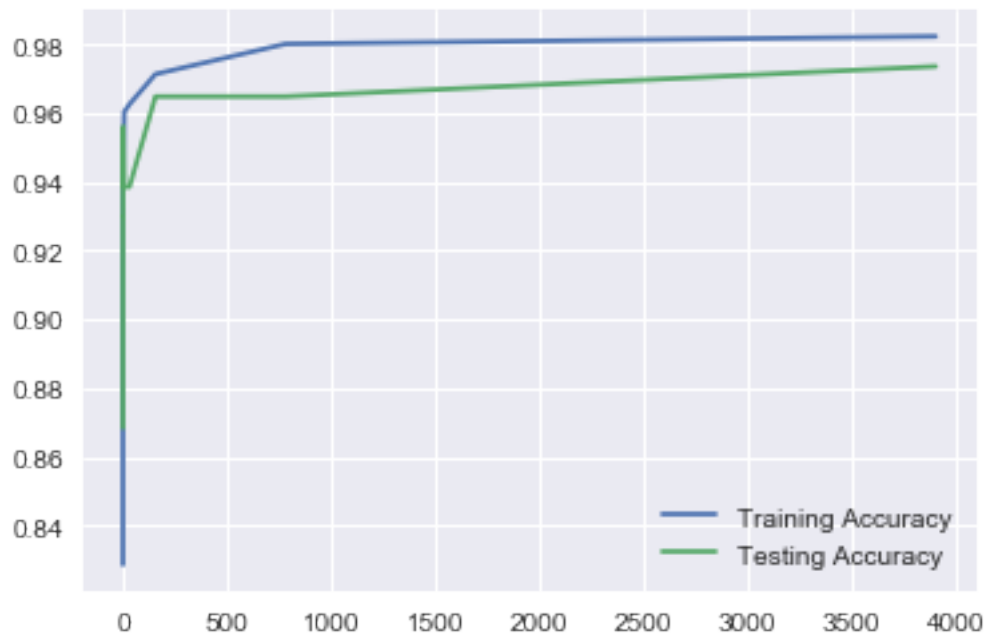


ALL

September 25, 2017

```
In [11]: exec(open('bc.py').read())
```

Maximum accuracy using Logistic Regression = 97.3684 with C = 3906.250000
Time taken for LogReg = 0.04 seconds



Neural Network with one hidden layer :

Number of Hidden Units = 2
Training Accuracy: 89.6703296703
Test Accuracy: 88.5964912281

Time taken for = 28.5913

Number of Hidden Units = 4
Training Accuracy: 90.5494505495
Test Accuracy: 92.9824561404

Time taken for = 30.9065

Number of Hidden Units = 6
Training Accuracy: 92.0879120879
Test Accuracy: 87.7192982456

Time taken for = 36.8828

Number of Hidden Units = 8
Training Accuracy: 95.3846153846
Test Accuracy: 92.9824561404

Time taken for = 40.5179

Number of Hidden Units = 10
Training Accuracy: 92.5274725275
Test Accuracy: 92.1052631579

Time taken for = 44.0609

Number of Hidden Units = 12
Training Accuracy: 93.1868131868
Test Accuracy: 93.8596491228

Time taken for = 43.7361

Number of Hidden Units = 14
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 31.4855

Number of Hidden Units = 16
Training Accuracy: 92.7472527473
Test Accuracy: 88.5964912281

Time taken for = 29.4915

Number of Hidden Units = 18
Training Accuracy: 93.1868131868
Test Accuracy: 91.2280701754

Time taken for = 29.8529

Number of Hidden Units = 20
Training Accuracy: 92.5274725275
Test Accuracy: 90.350877193

Time taken for = 37.0428

Number of Hidden Units = 22
Training Accuracy: 92.967032967
Test Accuracy: 88.5964912281

Time taken for = 33.0831

Number of Hidden Units = 24
Training Accuracy: 92.3076923077
Test Accuracy: 90.350877193

Time taken for = 36.1214

Number of Hidden Units = 26
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 34.1507

Number of Hidden Units = 28
Training Accuracy: 92.967032967
Test Accuracy: 95.6140350877

Time taken for = 35.1528

Number of Hidden Units = 30
Training Accuracy: 92.5274725275
Test Accuracy: 94.7368421053

Time taken for = 33.9809

Number of Hidden Units = 32
Training Accuracy: 92.5274725275
Test Accuracy: 93.8596491228

Time taken for = 36.7678

Number of Hidden Units = 34
Training Accuracy: 92.7472527473
Test Accuracy: 92.1052631579

Time taken for = 39.5805

Number of Hidden Units = 36
Training Accuracy: 91.6483516484
Test Accuracy: 93.8596491228

Time taken for = 38.6560

Number of Hidden Units = 38
Training Accuracy: 93.4065934066
Test Accuracy: 92.9824561404

Time taken for = 40.2211

Number of Hidden Units = 40
Training Accuracy: 92.0879120879
Test Accuracy: 94.7368421053

Time taken for = 39.9983

Number of Hidden Units = 42
Training Accuracy: 92.3076923077
Test Accuracy: 94.7368421053

Time taken for = 52.5092

Number of Hidden Units = 44
Training Accuracy: 91.6483516484
Test Accuracy: 88.5964912281

Time taken for = 43.2559

Number of Hidden Units = 46
Training Accuracy: 92.3076923077
Test Accuracy: 91.2280701754

Time taken for = 41.4898

Number of Hidden Units = 48
Training Accuracy: 94.9450549451
Test Accuracy: 91.2280701754

Time taken for = 41.4956

Number of Hidden Units = 50
Training Accuracy: 91.8681318681
Test Accuracy: 90.350877193

Time taken for = 43.0108

Number of Hidden Units = 52
Training Accuracy: 91.2087912088
Test Accuracy: 96.4912280702

Time taken for = 43.2429

Number of Hidden Units = 54
Training Accuracy: 91.8681318681
Test Accuracy: 93.8596491228

Time taken for = 44.6550

Number of Hidden Units = 56
Training Accuracy: 92.5274725275
Test Accuracy: 90.350877193

Time taken for = 47.1286

Number of Hidden Units = 58
Training Accuracy: 91.8681318681
Test Accuracy: 92.9824561404

Time taken for = 46.8621

Number of Hidden Units = 60
Training Accuracy: 91.6483516484
Test Accuracy: 94.7368421053

Time taken for = 47.4768

Number of Hidden Units = 62
Training Accuracy: 92.0879120879
Test Accuracy: 92.1052631579

Time taken for = 49.5363

Number of Hidden Units = 64
Training Accuracy: 92.0879120879
Test Accuracy: 93.8596491228

Time taken for = 49.8099

Number of Hidden Units = 66
Training Accuracy: 93.4065934066
Test Accuracy: 89.4736842105

Time taken for = 50.4102

Number of Hidden Units = 68
Training Accuracy: 90.989010989
Test Accuracy: 95.6140350877

Time taken for = 51.6632

Number of Hidden Units = 70
Training Accuracy: 91.8681318681
Test Accuracy: 94.7368421053

Time taken for = 51.9448

Number of Hidden Units = 72
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 54.0679

Number of Hidden Units = 74
Training Accuracy: 91.8681318681
Test Accuracy: 92.9824561404

Time taken for = 54.0227

Number of Hidden Units = 76
Training Accuracy: 92.5274725275
Test Accuracy: 92.9824561404

Time taken for = 54.5933

Number of Hidden Units = 78
Training Accuracy: 91.6483516484
Test Accuracy: 90.350877193

Time taken for = 55.6593

Number of Hidden Units = 80
Training Accuracy: 93.1868131868
Test Accuracy: 92.1052631579

Time taken for = 57.2782

Number of Hidden Units = 82
Training Accuracy: 93.6263736264
Test Accuracy: 91.2280701754

Time taken for = 58.1976

Number of Hidden Units = 84
Training Accuracy: 93.4065934066
Test Accuracy: 91.2280701754

Time taken for = 59.4091

Number of Hidden Units = 86
Training Accuracy: 92.7472527473
Test Accuracy: 92.9824561404

Time taken for = 59.3852

Number of Hidden Units = 88
Training Accuracy: 92.967032967
Test Accuracy: 89.4736842105

Time taken for = 60.4570

Number of Hidden Units = 90
Training Accuracy: 92.5274725275
Test Accuracy: 92.9824561404

Time taken for = 67.2974

Number of Hidden Units = 92
Training Accuracy: 93.1868131868
Test Accuracy: 88.5964912281

Time taken for = 71.6502

Number of Hidden Units = 94
Training Accuracy: 92.0879120879
Test Accuracy: 91.2280701754

Time taken for = 72.3765

Number of Hidden Units = 96
Training Accuracy: 91.8681318681
Test Accuracy: 93.8596491228

Time taken for = 74.2587

Number of Hidden Units = 98
Training Accuracy: 91.8681318681
Test Accuracy: 91.2280701754

Time taken for = 75.8865

Number of Hidden Units = 100
Training Accuracy: 91.6483516484
Test Accuracy: 92.9824561404

Time taken for = 75.2257

Number of Hidden Units = 102
Training Accuracy: 92.967032967
Test Accuracy: 90.350877193

Time taken for = 76.1902

Number of Hidden Units = 104
Training Accuracy: 92.5274725275
Test Accuracy: 92.9824561404

Time taken for = 68.5634

Number of Hidden Units = 106
Training Accuracy: 92.7472527473
Test Accuracy: 88.5964912281

Time taken for = 72.8256

Number of Hidden Units = 108
Training Accuracy: 94.2857142857
Test Accuracy: 93.8596491228

Time taken for = 76.1446

Number of Hidden Units = 110
Training Accuracy: 92.0879120879
Test Accuracy: 91.2280701754

Time taken for = 71.2690

Number of Hidden Units = 112
Training Accuracy: 92.5274725275
Test Accuracy: 94.7368421053

Time taken for = 71.4466

Number of Hidden Units = 114
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 73.6881

Number of Hidden Units = 116
Training Accuracy: 92.5274725275
Test Accuracy: 88.5964912281

Time taken for = 74.4829

Number of Hidden Units = 118
Training Accuracy: 91.2087912088
Test Accuracy: 96.4912280702

Time taken for = 74.0574

Number of Hidden Units = 120
Training Accuracy: 92.0879120879
Test Accuracy: 90.350877193

Time taken for = 75.9105

Number of Hidden Units = 122
Training Accuracy: 93.1868131868
Test Accuracy: 88.5964912281

Time taken for = 77.8786

Number of Hidden Units = 124
Training Accuracy: 92.0879120879
Test Accuracy: 90.350877193

Time taken for = 77.1780

Number of Hidden Units = 126
Training Accuracy: 93.8461538462
Test Accuracy: 90.350877193

Time taken for = 84.3357

Number of Hidden Units = 128
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 79.4509

Number of Hidden Units = 130
Training Accuracy: 92.0879120879
Test Accuracy: 93.8596491228

Time taken for = 87.7145

Number of Hidden Units = 132
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 82.8797

Number of Hidden Units = 134
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 84.3533

Number of Hidden Units = 136
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 69.0829

Number of Hidden Units = 138
Training Accuracy: 92.3076923077
Test Accuracy: 93.8596491228

Time taken for = 58.3962

Number of Hidden Units = 140
Training Accuracy: 91.8681318681
Test Accuracy: 91.2280701754

Time taken for = 58.6809

Number of Hidden Units = 142
Training Accuracy: 94.0659340659
Test Accuracy: 90.350877193

Time taken for = 75.8259

Number of Hidden Units = 144
Training Accuracy: 92.0879120879
Test Accuracy: 88.5964912281

Time taken for = 83.2154

Number of Hidden Units = 146
Training Accuracy: 92.0879120879
Test Accuracy: 89.4736842105

Time taken for = 72.3659

Number of Hidden Units = 148
Training Accuracy: 92.0879120879
Test Accuracy: 96.4912280702

Time taken for = 74.7458

Number of Hidden Units = 150
Training Accuracy: 92.5274725275
Test Accuracy: 88.5964912281

Time taken for = 71.2138

Number of Hidden Units = 152
Training Accuracy: 92.3076923077
Test Accuracy: 88.5964912281

Time taken for = 67.7359

Number of Hidden Units = 154
Training Accuracy: 91.6483516484
Test Accuracy: 98.2456140351

Time taken for = 76.7829

Number of Hidden Units = 156
Training Accuracy: 91.2087912088
Test Accuracy: 95.6140350877

Time taken for = 68.5636

Number of Hidden Units = 158
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 66.8854

Number of Hidden Units = 160
Training Accuracy: 92.7472527473
Test Accuracy: 93.8596491228

Time taken for = 74.1008

Number of Hidden Units = 162
Training Accuracy: 91.4285714286
Test Accuracy: 93.8596491228

Time taken for = 72.4222

Number of Hidden Units = 164
Training Accuracy: 91.6483516484
Test Accuracy: 93.8596491228

Time taken for = 71.6586

Number of Hidden Units = 166
Training Accuracy: 91.4285714286
Test Accuracy: 92.1052631579

Time taken for = 74.4313

Number of Hidden Units = 168
Training Accuracy: 91.8681318681
Test Accuracy: 92.1052631579

Time taken for = 83.0846

Number of Hidden Units = 170
Training Accuracy: 91.8681318681
Test Accuracy: 92.9824561404

Time taken for = 73.9598

Number of Hidden Units = 172
Training Accuracy: 92.0879120879
Test Accuracy: 95.6140350877

Time taken for = 71.3470

Number of Hidden Units = 174
Training Accuracy: 91.8681318681
Test Accuracy: 93.8596491228

Time taken for = 81.1470

Number of Hidden Units = 176
Training Accuracy: 94.7252747253
Test Accuracy: 92.9824561404

Time taken for = 82.8129

Number of Hidden Units = 178
Training Accuracy: 92.7472527473
Test Accuracy: 87.7192982456

Time taken for = 93.6040

Number of Hidden Units = 180
Training Accuracy: 92.5274725275
Test Accuracy: 89.4736842105

Time taken for = 91.1861

Number of Hidden Units = 182
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 91.4302

Number of Hidden Units = 184
Training Accuracy: 95.3846153846
Test Accuracy: 92.1052631579

Time taken for = 87.7086

Number of Hidden Units = 186
Training Accuracy: 91.8681318681
Test Accuracy: 92.9824561404

Time taken for = 75.5720

Number of Hidden Units = 188
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 76.4111

Number of Hidden Units = 190
Training Accuracy: 87.6923076923
Test Accuracy: 83.3333333333

Time taken for = 76.8369

Number of Hidden Units = 192
Training Accuracy: 94.5054945055
Test Accuracy: 91.2280701754

Time taken for = 77.2014

Number of Hidden Units = 194
Training Accuracy: 87.9120879121
Test Accuracy: 83.3333333333

Time taken for = 78.2294

Number of Hidden Units = 196
Training Accuracy: 93.6263736264
Test Accuracy: 90.350877193

Time taken for = 79.2068

Number of Hidden Units = 198
Training Accuracy: 92.7472527473
Test Accuracy: 89.4736842105

Time taken for = 81.9508

Number of Hidden Units = 200
Training Accuracy: 92.0879120879
Test Accuracy: 92.1052631579

Time taken for = 88.1180

Number of Hidden Units = 202
Training Accuracy: 91.2087912088
Test Accuracy: 95.6140350877

Time taken for = 90.4382

Number of Hidden Units = 204
Training Accuracy: 91.8681318681
Test Accuracy: 93.8596491228

Time taken for = 90.1800

Number of Hidden Units = 206
Training Accuracy: 92.0879120879
Test Accuracy: 88.5964912281

Time taken for = 92.5542

Number of Hidden Units = 208
Training Accuracy: 93.4065934066
Test Accuracy: 91.2280701754

Time taken for = 83.4044

Number of Hidden Units = 210
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 87.0949

Number of Hidden Units = 212
Training Accuracy: 91.8681318681
Test Accuracy: 90.350877193

Time taken for = 88.6562

Number of Hidden Units = 214
Training Accuracy: 92.0879120879
Test Accuracy: 87.7192982456

Time taken for = 98.3809

Number of Hidden Units = 216
Training Accuracy: 92.3076923077
Test Accuracy: 93.8596491228

Time taken for = 98.8331

Number of Hidden Units = 218
Training Accuracy: 92.967032967
Test Accuracy: 94.7368421053

Time taken for = 105.8074

Number of Hidden Units = 220
Training Accuracy: 91.6483516484
Test Accuracy: 95.6140350877

Time taken for = 100.6052

Number of Hidden Units = 222
Training Accuracy: 91.8681318681
Test Accuracy: 93.8596491228

Time taken for = 133.7471

Number of Hidden Units = 224
Training Accuracy: 92.0879120879
Test Accuracy: 91.2280701754

Time taken for = 204.1291

Number of Hidden Units = 226
Training Accuracy: 94.5054945055
Test Accuracy: 92.9824561404

Time taken for = 168.7248

Number of Hidden Units = 228
Training Accuracy: 92.5274725275
Test Accuracy: 91.2280701754

Time taken for = 215.7105

Number of Hidden Units = 230
Training Accuracy: 94.0659340659
Test Accuracy: 86.8421052632

Time taken for = 221.5721

Number of Hidden Units = 232
Training Accuracy: 92.7472527473
Test Accuracy: 93.8596491228

Time taken for = 212.2769

Number of Hidden Units = 234
Training Accuracy: 95.1648351648
Test Accuracy: 91.2280701754

Time taken for = 171.6910

Number of Hidden Units = 236
Training Accuracy: 92.5274725275
Test Accuracy: 92.9824561404

Time taken for = 110.7541

Number of Hidden Units = 238
Training Accuracy: 92.0879120879
Test Accuracy: 92.1052631579

Time taken for = 112.6536

Number of Hidden Units = 240
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 114.3814

Number of Hidden Units = 242
Training Accuracy: 92.3076923077
Test Accuracy: 88.5964912281

Time taken for = 113.5824

Number of Hidden Units = 244
Training Accuracy: 92.5274725275
Test Accuracy: 92.1052631579

Time taken for = 119.3503

Number of Hidden Units = 246
Training Accuracy: 93.1868131868
Test Accuracy: 90.350877193

Time taken for = 198.7319

Number of Hidden Units = 248
Training Accuracy: 92.0879120879
Test Accuracy: 95.6140350877

Time taken for = 134.8820

Number of Hidden Units = 250
Training Accuracy: 92.0879120879
Test Accuracy: 91.2280701754

Time taken for = 130.8772

Number of Hidden Units = 252
Training Accuracy: 93.1868131868
Test Accuracy: 93.8596491228

Time taken for = 171.0379

Number of Hidden Units = 254
Training Accuracy: 92.7472527473
Test Accuracy: 92.9824561404

Time taken for = 187.7425

Number of Hidden Units = 256
Training Accuracy: 92.7472527473
Test Accuracy: 92.1052631579

Time taken for = 240.6813

Number of Hidden Units = 258
Training Accuracy: 92.967032967
Test Accuracy: 90.350877193

Time taken for = 228.5231

Number of Hidden Units = 260
Training Accuracy: 91.6483516484
Test Accuracy: 92.1052631579

Time taken for = 238.2889

Number of Hidden Units = 262
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 250.3246

Number of Hidden Units = 264
Training Accuracy: 91.8681318681
Test Accuracy: 94.7368421053

Time taken for = 239.5934

Number of Hidden Units = 266
Training Accuracy: 91.6483516484
Test Accuracy: 93.8596491228

Time taken for = 150.3179

Number of Hidden Units = 268
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 180.9421

Number of Hidden Units = 270
Training Accuracy: 92.7472527473
Test Accuracy: 92.1052631579

Time taken for = 137.1796

Number of Hidden Units = 272
Training Accuracy: 94.9450549451
Test Accuracy: 91.2280701754

Time taken for = 211.7950

Number of Hidden Units = 274
Training Accuracy: 91.6483516484
Test Accuracy: 94.7368421053

Time taken for = 243.6441

Number of Hidden Units = 276
Training Accuracy: 92.967032967
Test Accuracy: 91.2280701754

Time taken for = 259.6740

Number of Hidden Units = 278
Training Accuracy: 92.3076923077
Test Accuracy: 89.4736842105

Time taken for = 266.5139

Number of Hidden Units = 280
Training Accuracy: 91.2087912088
Test Accuracy: 94.7368421053

Time taken for = 254.0885

Number of Hidden Units = 282
Training Accuracy: 92.7472527473
Test Accuracy: 92.9824561404

Time taken for = 177.2458

Number of Hidden Units = 284
Training Accuracy: 91.4285714286
Test Accuracy: 93.8596491228

Time taken for = 162.8116

Number of Hidden Units = 286
Training Accuracy: 91.8681318681
Test Accuracy: 95.6140350877

Time taken for = 196.1265

Number of Hidden Units = 288
Training Accuracy: 92.967032967
Test Accuracy: 89.4736842105

Time taken for = 214.5897

Number of Hidden Units = 290
Training Accuracy: 92.0879120879
Test Accuracy: 96.4912280702

Time taken for = 293.4489

Number of Hidden Units = 292
Training Accuracy: 92.5274725275
Test Accuracy: 92.1052631579

Time taken for = 330.1466

Number of Hidden Units = 294
Training Accuracy: 92.0879120879
Test Accuracy: 93.8596491228

Time taken for = 238.0007

Number of Hidden Units = 296
Training Accuracy: 92.0879120879
Test Accuracy: 92.1052631579

Time taken for = 256.1658

Number of Hidden Units = 298
Training Accuracy: 94.0659340659
Test Accuracy: 94.7368421053

Time taken for = 225.9995

Number of Hidden Units = 300
Training Accuracy: 92.967032967
Test Accuracy: 89.4736842105

Time taken for = 171.6713

Number of Hidden Units = 302
Training Accuracy: 94.9450549451
Test Accuracy: 95.6140350877

Time taken for = 172.6605

Number of Hidden Units = 304
Training Accuracy: 94.2857142857
Test Accuracy: 96.4912280702

Time taken for = 178.3619

Number of Hidden Units = 306
Training Accuracy: 92.3076923077
Test Accuracy: 89.4736842105

Time taken for = 175.8022

Number of Hidden Units = 308
Training Accuracy: 92.0879120879
Test Accuracy: 96.4912280702

Time taken for = 174.4836

Number of Hidden Units = 310
Training Accuracy: 94.0659340659
Test Accuracy: 91.2280701754

Time taken for = 176.8236

Number of Hidden Units = 312
Training Accuracy: 92.5274725275
Test Accuracy: 91.2280701754

Time taken for = 177.6880

Number of Hidden Units = 314
Training Accuracy: 91.4285714286
Test Accuracy: 93.8596491228

Time taken for = 178.0688

Number of Hidden Units = 316
Training Accuracy: 91.2087912088
Test Accuracy: 94.7368421053

Time taken for = 178.4224

Number of Hidden Units = 318
Training Accuracy: 91.8681318681
Test Accuracy: 94.7368421053

Time taken for = 179.4917

Number of Hidden Units = 320
Training Accuracy: 91.6483516484
Test Accuracy: 92.9824561404

Time taken for = 181.0745

Number of Hidden Units = 322
Training Accuracy: 91.4285714286
Test Accuracy: 92.9824561404

Time taken for = 181.2829

Number of Hidden Units = 324
Training Accuracy: 92.0879120879
Test Accuracy: 91.2280701754

Time taken for = 181.9860

Number of Hidden Units = 326
Training Accuracy: 94.9450549451
Test Accuracy: 91.2280701754

Time taken for = 184.4913

Number of Hidden Units = 328
Training Accuracy: 93.1868131868
Test Accuracy: 92.9824561404

Time taken for = 185.1882

Number of Hidden Units = 330
Training Accuracy: 93.4065934066
Test Accuracy: 87.7192982456

Time taken for = 185.5858

Number of Hidden Units = 332
Training Accuracy: 94.5054945055
Test Accuracy: 92.9824561404

Time taken for = 188.2753

Number of Hidden Units = 334
Training Accuracy: 92.7472527473
Test Accuracy: 92.1052631579

Time taken for = 188.2256

Number of Hidden Units = 336
Training Accuracy: 92.0879120879
Test Accuracy: 90.350877193

Time taken for = 188.8247

Number of Hidden Units = 338
Training Accuracy: 91.8681318681
Test Accuracy: 92.1052631579

Time taken for = 190.4901

Number of Hidden Units = 340
Training Accuracy: 91.6483516484
Test Accuracy: 92.9824561404

Time taken for = 191.8360

Number of Hidden Units = 342
Training Accuracy: 91.6483516484
Test Accuracy: 91.2280701754

Time taken for = 191.9286

Number of Hidden Units = 344
Training Accuracy: 91.2087912088
Test Accuracy: 94.7368421053

Time taken for = 193.6756

Number of Hidden Units = 346
Training Accuracy: 92.3076923077
Test Accuracy: 92.9824561404

Time taken for = 195.0269

Number of Hidden Units = 348
Training Accuracy: 93.4065934066
Test Accuracy: 90.350877193

Time taken for = 195.9106

Number of Hidden Units = 350
Training Accuracy: 93.1868131868
Test Accuracy: 92.1052631579

Time taken for = 197.6963

Number of Hidden Units = 352
Training Accuracy: 92.5274725275
Test Accuracy: 92.9824561404

Time taken for = 197.0985

Number of Hidden Units = 354
Training Accuracy: 92.7472527473
Test Accuracy: 92.1052631579

Time taken for = 197.6844

Number of Hidden Units = 356
Training Accuracy: 91.6483516484
Test Accuracy: 95.6140350877

Time taken for = 199.4618

Number of Hidden Units = 358
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 200.1631

Number of Hidden Units = 360
Training Accuracy: 91.6483516484
Test Accuracy: 93.8596491228

Time taken for = 200.7762

Number of Hidden Units = 362
Training Accuracy: 92.5274725275
Test Accuracy: 93.8596491228

Time taken for = 202.2342

Number of Hidden Units = 364
Training Accuracy: 94.2857142857
Test Accuracy: 95.6140350877

Time taken for = 203.1426

Number of Hidden Units = 366
Training Accuracy: 92.967032967
Test Accuracy: 90.350877193

Time taken for = 204.2696

Number of Hidden Units = 368
Training Accuracy: 92.7472527473
Test Accuracy: 94.7368421053

Time taken for = 205.2858

Number of Hidden Units = 370
Training Accuracy: 91.6483516484
Test Accuracy: 93.8596491228

Time taken for = 204.2541

Number of Hidden Units = 372
Training Accuracy: 92.0879120879
Test Accuracy: 94.7368421053

Time taken for = 207.5662

Number of Hidden Units = 374
Training Accuracy: 89.4505494505
Test Accuracy: 92.1052631579

Time taken for = 208.9050

Number of Hidden Units = 376
Training Accuracy: 91.8681318681
Test Accuracy: 95.6140350877

Time taken for = 210.9239

Number of Hidden Units = 378
Training Accuracy: 94.9450549451
Test Accuracy: 92.9824561404

Time taken for = 210.7226

Number of Hidden Units = 380
Training Accuracy: 92.3076923077
Test Accuracy: 92.1052631579

Time taken for = 211.6592

Number of Hidden Units = 382
Training Accuracy: 94.7252747253
Test Accuracy: 92.9824561404

Time taken for = 212.9069

Number of Hidden Units = 384
Training Accuracy: 91.6483516484
Test Accuracy: 97.3684210526

Time taken for = 213.2267

Number of Hidden Units = 386
Training Accuracy: 91.8681318681
Test Accuracy: 92.9824561404

Time taken for = 214.7158

Number of Hidden Units = 388
Training Accuracy: 92.967032967
Test Accuracy: 92.1052631579

Time taken for = 215.5729

Number of Hidden Units = 390
Training Accuracy: 92.5274725275
Test Accuracy: 92.1052631579

Time taken for = 215.9425

Number of Hidden Units = 392
Training Accuracy: 92.0879120879
Test Accuracy: 92.9824561404

Time taken for = 218.1162

Number of Hidden Units = 394
Training Accuracy: 92.7472527473
Test Accuracy: 91.2280701754

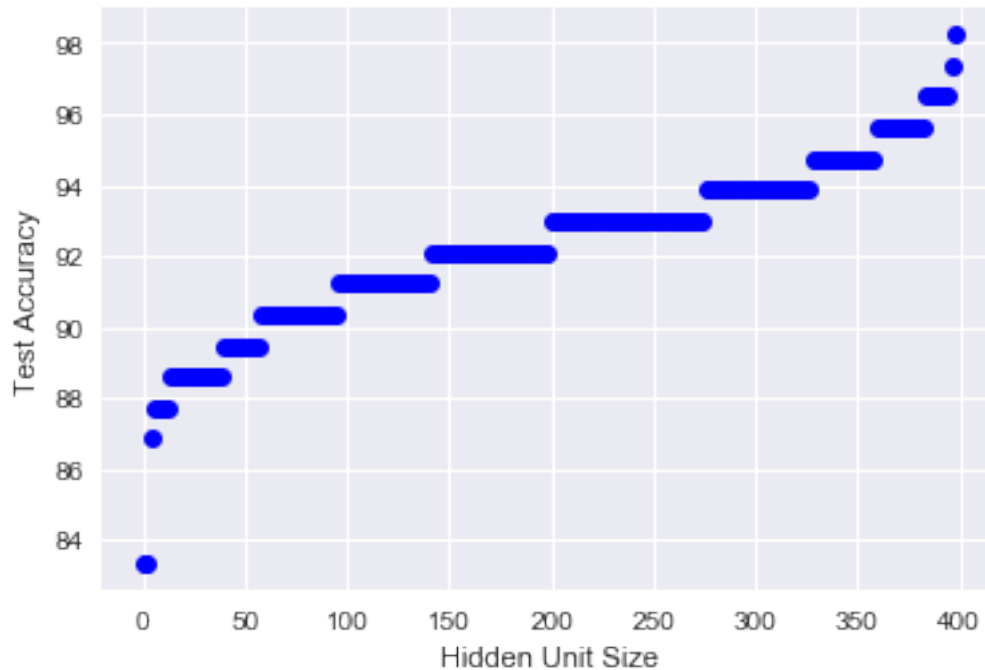
Time taken for = 218.1587

Number of Hidden Units = 396
Training Accuracy: 92.0879120879
Test Accuracy: 93.8596491228

Time taken for = 219.6483

Number of Hidden Units = 398
Training Accuracy: 91.8681318681
Test Accuracy: 90.350877193

Time taken for = 219.8028



Training Accuracy: 90.5494505495

Test Accuracy: 92.9824561404

Time taken for rbf = 104.2946 seconds

Accuracy using SVM with rbf : 93.8596491228

Time taken for linear = 125.6490 seconds

Accuracy using SVM with linear : 97.3684210526

Time taken for poly = 206.0486 seconds

Accuracy using SVM with poly : 97.3684210526

Time taken for sigmoid = 134.1262 seconds

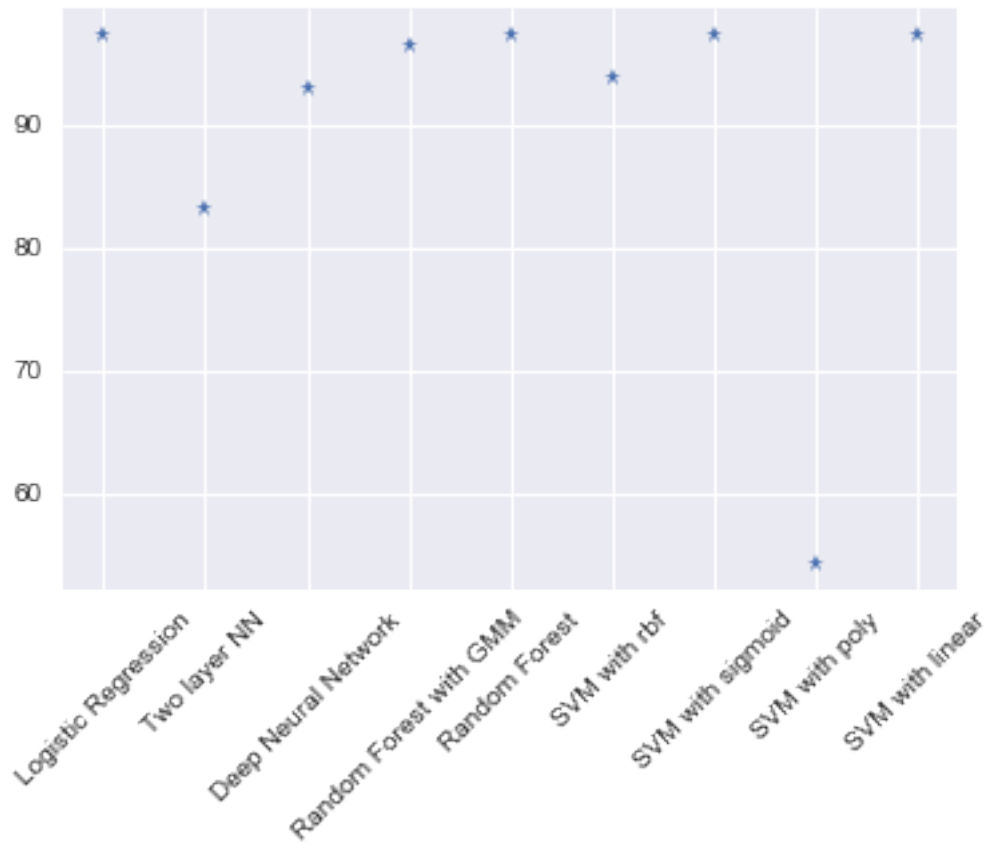
Accuracy using SVM with sigmoid : 54.3859649123

Time taken for Random Forest Classifier = 1.4733 seconds

Accuracy with Random Forest Classifier = 97.3684210526

Time taken for RandomForestClassifier with GMM = 30.24 seconds

Accuracy with Random Forest Classifier using GMM = 96.4912



Total time taken = 7 hours, 1 minutes and 20.3281 seconds

In []: