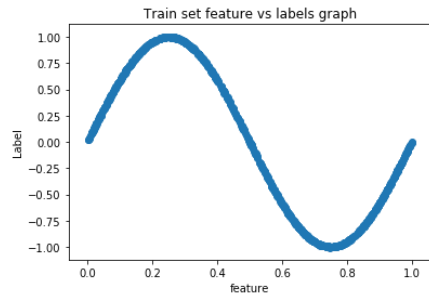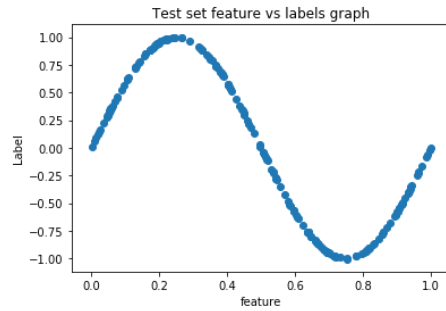Train set feature vs labels graph

Test set feature vs labels graph

Polynomial of Degree : 1
Starting Cost theta initiated as one: 1.6982862077051877
Final Train error:: 0.09967924136211806
Test error: 0.0955529890724732

Polynomial of Degree : 2
Starting Cost theta initiated as one: 2.6320538340598687
Final Train error:: 0.09910638394151053
Test error: 0.09597440421154096

Polynomial of Degree : 3
Starting Cost theta initiated as one: 3.5625176902420317
Final Train error:: 0.002285924447419187
Test error: 0.0023476528940025196

Polynomial of Degree : 4
Starting Cost theta initiated as one: 4.480386783555601
Final Train error:: 0.00425018025590497
Test error: 0.004246378710025651

Polynomial of Degree : 5
Starting Cost theta initiated as one: 5.384800114493669
Final Train error:: 0.0024434667609515193
Test error: 0.00243945973 6356506

Polynomial of Degree : 6
Starting Cost theta initiated as one: 6.276989139522175
Final Train error:: 0.001227808094885945
Test error: 0.0012300729393126724

Polynomial of Degree : 7
Starting Cost theta initiated as one: 7.158478749063768
Final Train error:: 0.000582143777638278

Test error: 0.0005682276602183982

Polynomial of Degree : 8
Starting Cost theta initiated as one: 8.030589888578536
Final Train error:: 0.0003689405325816304
Test error: 0.0003486838074460121

Polynomial of Degree : 9
Starting Cost theta initiated as one: 8.894348859937836
Final Train error:: 0.0004998712918351457
Test error: 0.0004954380409708962