Polynomial of Degree : 1

Polynomial of Degree : 2

Polynomial of Degree : 3

Polynomial of Degree : 4

Polynomial of Degree : 5

Polynomial of Degree : 6

Polynomial of Degree : 7

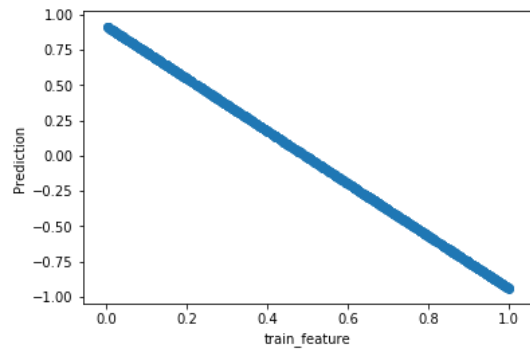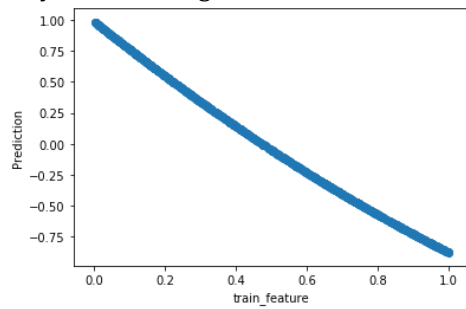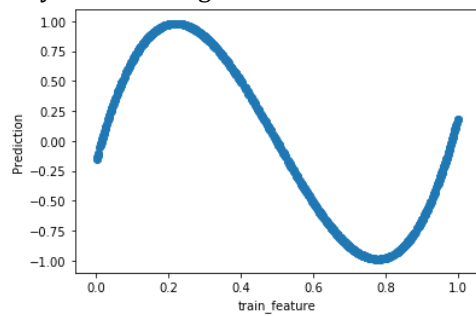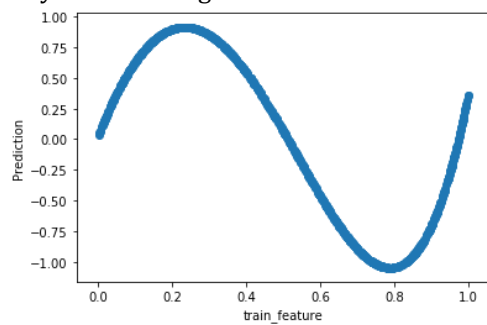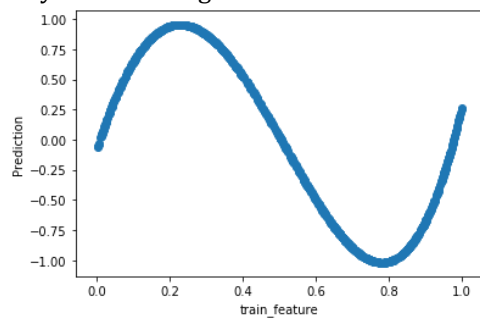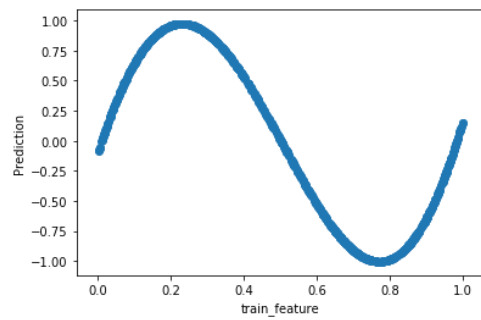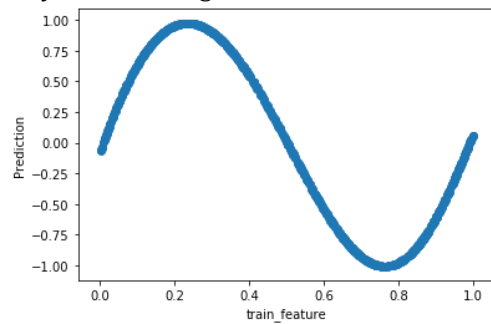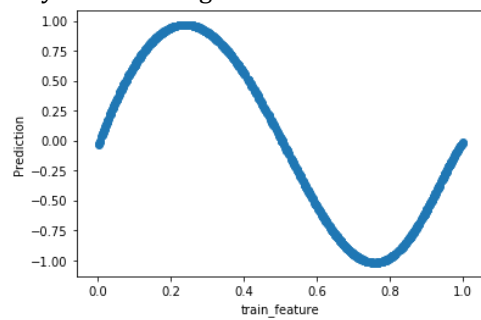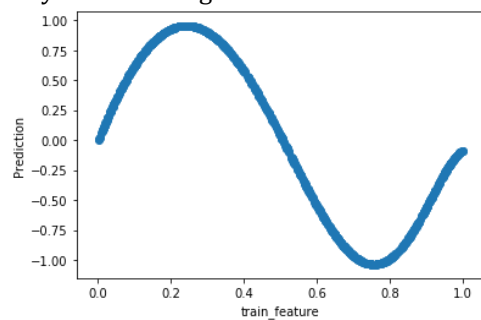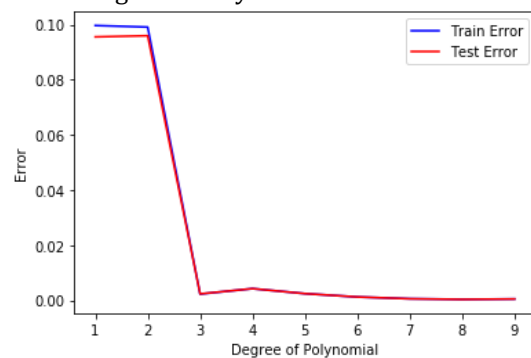
Polynomial of Degree : 8

Polynomial of Degree : 9

Plot of Degree of Polynomial vs Error

As we see the polynomial best suited is the one with minimum test error test error whose degree is 8