Model : 0 the Co-efficient obtained is : [8.31053927]

Model 0 the Intercept obtained is : 35.6370705955905

R2\_score: 0.2249107890439057

Residual Squared error for Model 0 : 15.669512164765065

Model : 1 the Co-efficient obtained is : [1.52127343]

Model 1 the Intercept obtained is : 35.54397676910493

R2\_score: 0.02660516163545068

Residual Squared error for Model 1 : 17.5599853621698

Model : 2 the Co-efficient obtained is : [-1.72812053]

Model 2 the Intercept obtained is : 35.538803970317424

R2\_score: 0.009026028768291061

Residual Squared error for Model 2 : 17.717839115857434

Model : 3 the Co-efficient obtained is : [-4.16268768]

Model 3 the Intercept obtained is : 35.59859636658751

R2\_score: 0.10528727087297053

Residual Squared error for Model 3 : 16.835322418754192

Model : 4 the Co-efficient obtained is : [5.47703558]

Model 4 the Intercept obtained is : 35.624678366135264

R2\_score: 0.15808324070818336

Residual Squared error for Model 4 : 16.331053720941885

Model : 5 the Co-efficient obtained is : [-2.80903202]

Model 5 the Intercept obtained is : 35.60236346677509

R2\_score: 0.02156593962517583

Residual Squared error for Model 5 : 17.605380319729385

Model : 6 the Co-efficient obtained is : [-2.55211074]

Model 6 the Intercept obtained is : 35.52659571502529

R2\_score: 0.028805404151276304

Residual Squared error for Model 6 : 17.540128012048743

Model : 7 the Co-efficient obtained is : [5.78348661]

Model 7 the Intercept obtained is : 35.53332714197512

R2\_score: 0.08496675112532848

Residual Squared error for Model 7 : 17.025429143075993

0.08496675112532848

R2 value is higher and optimal, when the numbers of features are: 1