**Code Explanation for VIF**

from statsmodels.stats.outliers\_influence import variance\_inflation\_factor

Importing the variance\_inflation\_factor function from statsmodels\_stats.outliers\_influence

def cal\_vif(X):

Function head and passing the dataset(X) into it

vif=pd.DataFrame()

Creating the table using pd.DataFrame and table name called vif

vif["variables"]=X.columns

Storing the columns of the dataset to variables

vif["VIF"]=[variance\_inflation\_factor(X.values,i) for i in range(X.shape[1])]

X.shape[1] is the columns of the dataset into the i variable. Variance\_inflation\_factor is inbuilt function and it will calculate the vif value for values of dataset and columns which is stored in i variable.

return vif

Returing the calculated vif table.