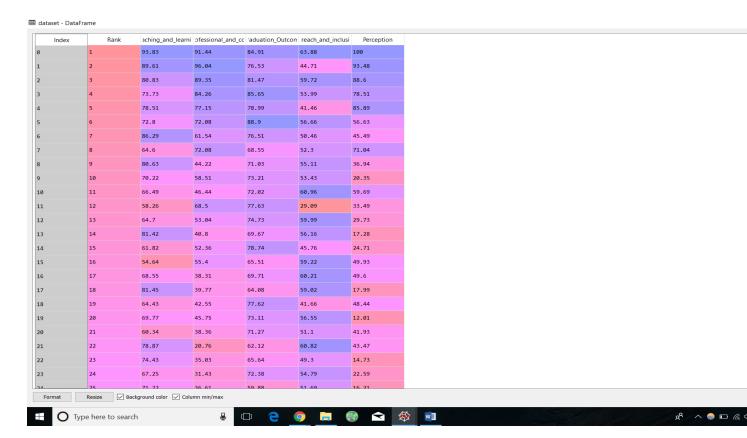
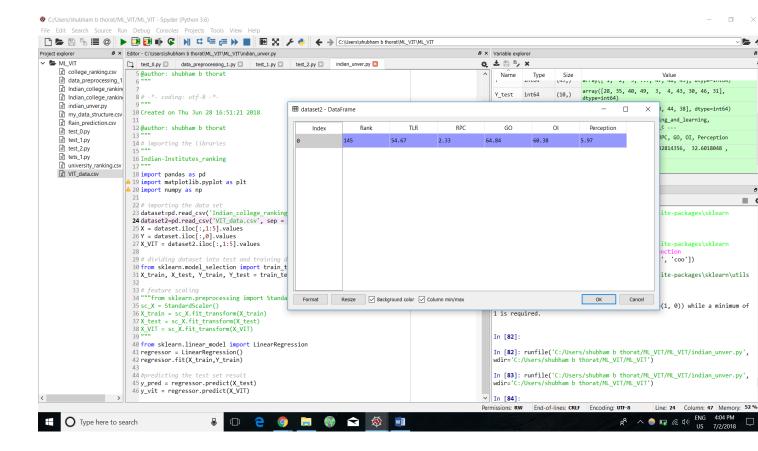
```
# -*- coding: utf-8 -*-
Created on Mon Jul 2 15:27:32 2018
@author: shubham b thorat
111111
# -*- coding: utf-8 -*-
Created on Thu Jun 28 16:51:21 2018
Indian-Institutes_ranking
@author: shubham b thorat
111111
# importing the libraries
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
# importing the data set
dataset=pd.read_csv('Indian_college_ranking.csv', sep = "\t")
dataset2=pd.read_csv('VIT_data.csv')
X = dataset.iloc[:,1:5].values
Y = dataset.iloc[:,0].values
X_VIT = dataset2.iloc[:,1:5].values
# dividing dataset into test and training dataset
from sklearn.model selection import train test split
```

```
X_train, X_test, Y_train, Y_test = train_test_split(X,Y, test_size = 1/5, random_state = 1)
# feature scaling
from sklearn.preprocessing import StandardScaler
sc_X = StandardScaler()
X_train = sc_X.fit_transform(X_train)
X_test = sc_X.fit_transform(X_test)
X_VIT = sc_X.fit_transform(X_VIT)
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train,Y_train)
#predicting the test set result
y_pred = regressor.predict(X_test)
y_vit = regressor.predict(X_VIT)
data_sheet =
```

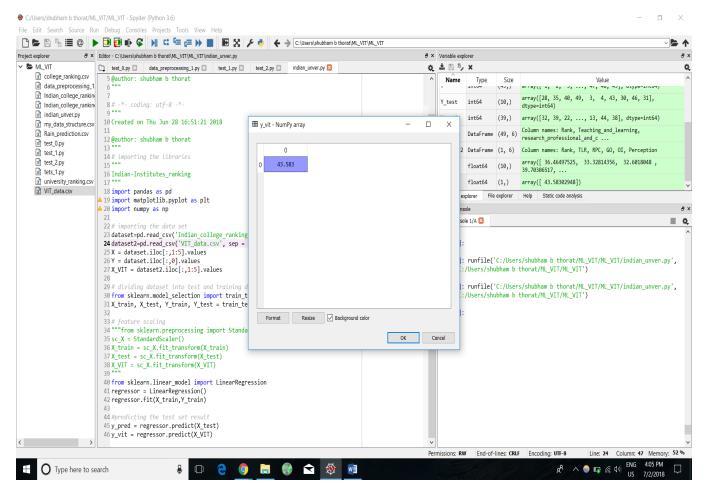


Datasheet2 = (Info Of VIT)



Rank_of_VIT

Y_VIT = 43.583



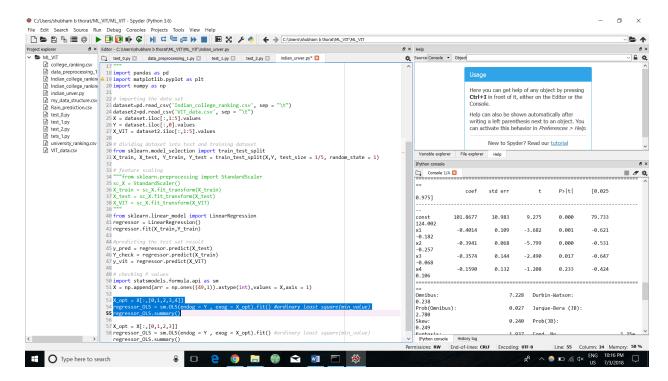
checking P values

import statsmodels.formula.api as sm

X = np.append(arr = np.ones((49,1)).astype(int),values = X,axis = 1)

 $X_{opt} = X[:,[0,1,2,3,4]]$

regressor_OLS = sm.OLS(endog = Y , exog = X_opt).fit() #ordinary least square(min_value) regressor_OLS.summary()



 $X_{opt} = X[:,[0,1,2,3]]$

regressor_OLS = sm.OLS(endog = Y, exog = X_opt).fit() #ordinary least square(min_value)

regressor_OLS.summary()

