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# -*- coding: utf-8 -*-
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Created on Thu Jun 28 16:51:21 2018
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@author: shubham b thorat
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# importing the libraries
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university ranking prediction
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```
import pandas as pd
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import matplotlib.pyplot as plt
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```
import numpy as np
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# importing the data set
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```
dataset=pd.read_csv('university_ranking.csv')
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```
X = dataset.iloc[:,1:13].values
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```
Y = dataset.iloc[:,0].values
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# taking care of missing data
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```
from sklearn.preprocessing import Imputer
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```
imputer = Imputer(missing_values="NaN", strategy="mean",axis=0)
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```
imputer = imputer.fit(X[:,2:13], y=None)
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```
X[:,2:14] = imputer.transform(X[:,2:14])
```

```
# handling categorical (encoding) data
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```
from sklearn.preprocessing import LabelEncoder
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label_encoder_X = LabelEncoder()
label_encoder_Y = LabelEncoder()
X[:,0] = label_encoder_X.fit_transform(X[:,0])
X[:,1] = label_encoder_X.fit_transform(X[:,1])
#onehotencoder = OneHotEncoder(categorical_features= [0])
#onehotencoder = OneHotEncoder(categorical_features= [1])
#X = onehotencoder.fit_transform(X).toarray()

# 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 = .3, random_state = 0)

# 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)

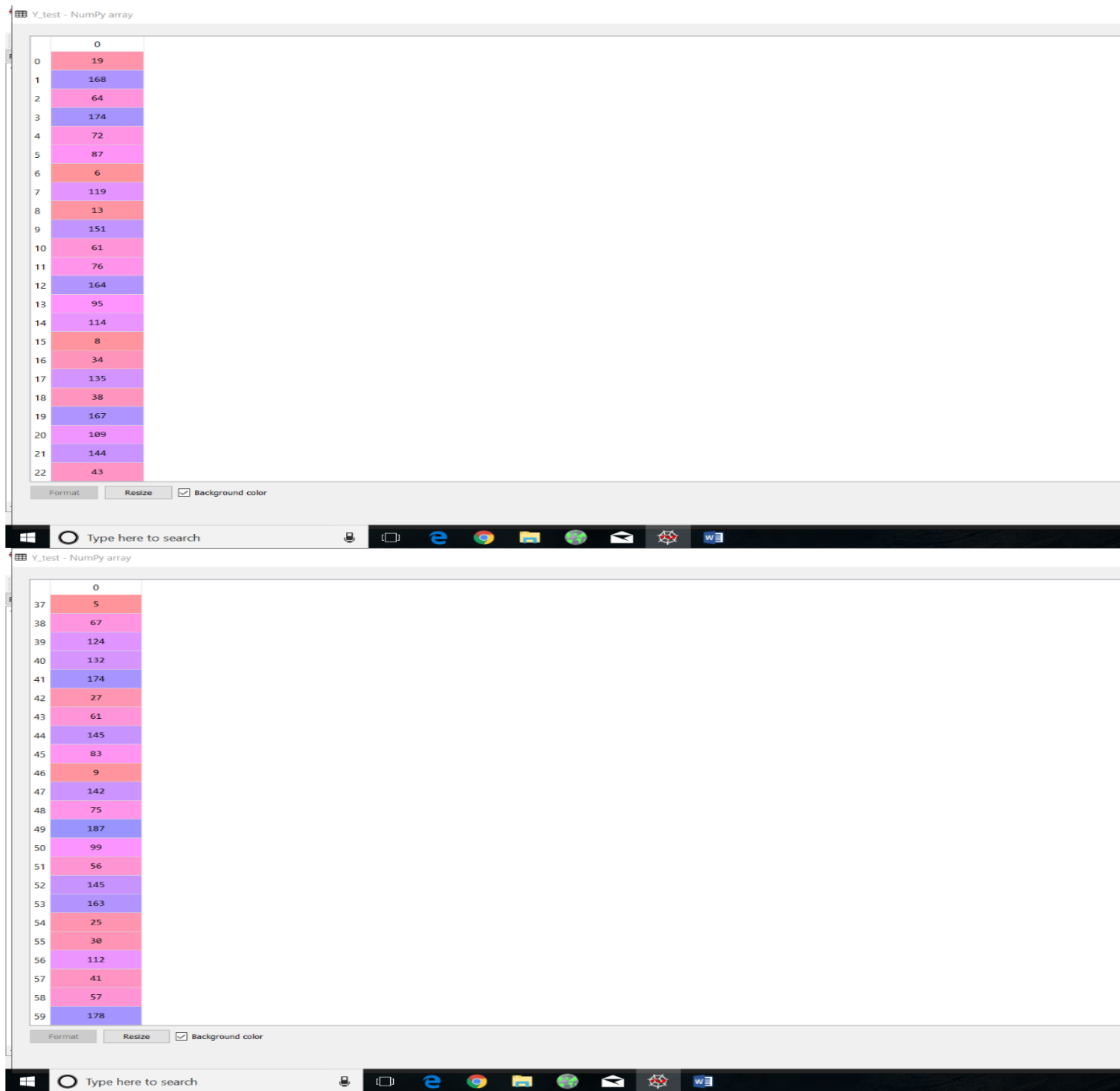
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train,Y_train)

#predicting the test set result
y_pred = regressor.predict(X_test)

"""

Y_test =

```



Y_pred =

y_pred - NumPy array

	0
0	29.353
1	148.13
2	88.6812
3	145.84
4	96.3923
5	116.832
6	-3.41295
7	157.993
8	1.19892
9	177.296
10	83.7012
11	81.7355
12	171.992
13	92.4178
14	133.634
15	-18.767
16	55.8571
17	108.298
18	39.0305
19	146.646
20	137.232
21	153.787
22	61.3178

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y_pred - NumPy array

	0
37	-32.8702
38	78.5632
39	144.956
40	157.021
41	154.862
42	44.2373
43	93.0462
44	142.932
45	105.502
46	2.55602
47	97.9081
48	69.4454
49	137.992
50	101.206
51	95.47
52	103.994
53	155.778
54	21.5536
55	51.8203
56	156.661
57	41.7829
58	129.915
59	168.514

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