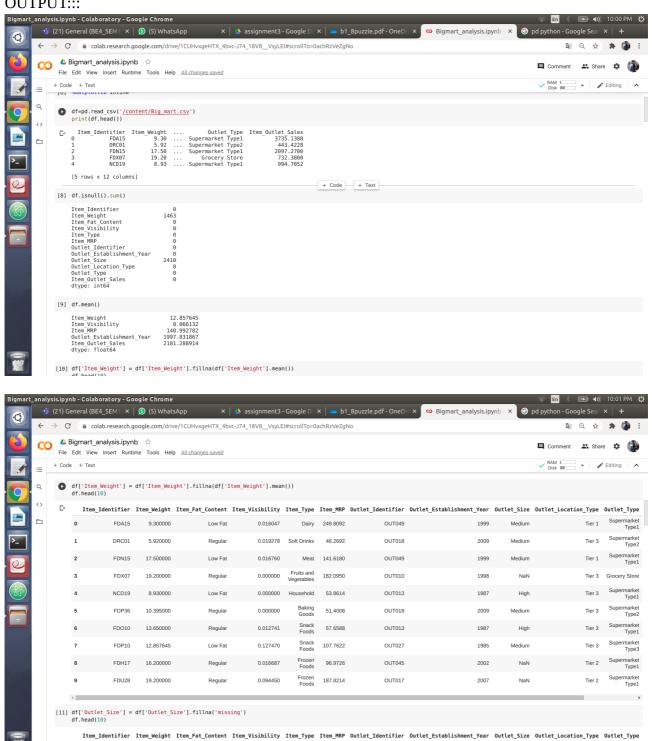
```
CODE:::
# -*- coding: utf-8 -*-
"""Bigmart_analysis.ipynb
Automatically generated by Colaboratory.
Original file is located at
  https://colab.research.google.com/drive/1CUHvxgeHTX_4bvc-J74_18V8__VsyLEI
# Commented out IPython magic to ensure Python compatibility.
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
# %matplotlib inline
df=pd.read csv('/content/Big mart.csv')
print(df.head())
df.isnull().sum()
df.mean()
df['Item_Weight'] = df['Item_Weight'].fillna(df['Item_Weight'].mean())
df.head(10)
df['Outlet_Size'] = df['Outlet_Size'].fillna('missing')
df.head(10)
df['Item_Fat_Content'] = df['Item_Fat_Content'].replace({'LF':'Low Fat','reg':'Regular','lf':'Low
Fat','low fat':'Low Fat'})
df
df['Item_Visibility'] = df['Item_Visibility'].replace(0,df['Item_Visibility'].mean())
df.head(10)
sns.countplot(y="Outlet_Size", data=df)
sns.despine()
sns.countplot(y = 'Item_Fat_Content', data = df)
sns.despine()
sns.countplot(y = 'Outlet_Type', data = df)
sns.despine()
sns.countplot(y = 'Outlet_Establishment_Year', data = df)
sns.despine()
sns.countplot(y = 'Outlet_Location_Type', data = df)
sns.despine()
```

```
sns.regplot(x = 'Item_MRP',y = 'Item_Outlet_Sales',data = df , x_jitter=0.2,
scatter_kws={'alpha':0.1})
sns.despine()
grid = sns.FacetGrid(df, col='Outlet_Establishment_Year',col_wrap = 2)
grid.map(plt.scatter,'Item_MRP','Item_Outlet_Sales',alpha = 0.1)
sns.despine()
from sklearn import preprocessing
le = preprocessing.LabelEncoder()
li = ['Outlet_Type','Outlet_Location_Type','Outlet_Size','Item_Fat_Content','Outlet_Identifier']
for i in li:
  df[i] = le.fit_transform(df[i])
df.head()
#splitting data dor train and test
dum = pd.get_dummies(df['Outlet_Identifier'])
df1 = pd.concat([df,dum],axis=1)
label = df1['Item_Outlet_Sales']
train =
df1.drop(columns=['Item_Identifier','Item_Weight','Item_Outlet_Sales','Item_Type','Outlet_Establis
hment Year'])
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(train, label, test_size = 0.40,random_state = 101)
"""## Linear Regression
### Preparing the model and importing necessary packages
from sklearn.linear_model import LinearRegression
reg = LinearRegression()
"""### Fitting the model """
reg.fit(x_train,y_train)
"""### Here we find the accuracy score of our Linear Regression model"""
reg.score(x_test,y_test)
```

OUTPUT:::



FDA15 9.300000 Low Fat 0.016047 Dairy 249.8092 OUT049 1999 Medium

