```
#import libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import warnings
#We do not want to see warnings
warnings.filterwarnings("ignore")
#import data
data = pd.read_csv("uber.csv")
#Create a data copy
df = data.copy()
#Print data
df.head
#Get Info
df.info()
#pickup_datetime is not in required data format
df["pickup_datetime"] = pd.to_datetime(df["pickup_datetime"])
df.info()
#Statistics of data
df.describe()
#Number of missing values
df.isnull().sum()
#Correlation
df.corr()
#Drop the rows with missing values
df.dropna(inplace=True)
plt.boxplot(df['fare_amount'])
                                                            + Code
                                                                        + Text
#Remove Outliers
q_low = df["fare_amount"].quantile(0.01)
q_hi = df["fare_amount"].quantile(0.99)
df = df[(df["fare_amount"] < q_hi) & (df["fare_amount"] > q_low)]
#Check the missing values now
df.isnull().sum()
#Time to apply learning models
from sklearn.model_selection import train_test_split
\#Take\ x\ as\ predictor\ variable
x = df.drop("fare_amount", axis = 1)
#And y as target variable
y = df['fare_amount']
#Necessary to apply model
x['pickup_datetime'] = pd.to_numeric(pd.to_datetime(x['pickup_datetime']))
x = x.loc[:, x.columns.str.contains('^Unnamed')]
x.info()
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.2, random_state = 1)
from sklearn.linear_model import LinearRegression
```

```
lrmodel = LinearRegression()
lrmodel.fit(x_train, y_train)
      ▼ LinearRegression
     LinearRegression()
#Prediction
predict = lrmodel.predict(x_test)
#Check Error
from sklearn.metrics import mean_squared_error
lrmodelrmse = np.sqrt(mean_squared_error(predict, y_test))
print("RMSE error for the model is ", lrmodelrmse)
     RMSE error for the model is 8.063863046328835
#Let's Apply Random Forest Regressor
from \ sklearn.ensemble \ import \ Random ForestRegressor
rfrmodel = RandomForestRegressor(n_estimators = 100, random_state = 101)
#Fit the Forest
rfrmodel.fit(x\_train, y\_train)
rfrmodel_pred = rfrmodel.predict(x_test)
#Errors for the forest
rfrmodel_rmse = np.sqrt(mean_squared_error(rfrmodel_pred, y_test))
print("RMSE value for Random Forest is:",rfrmodel_rmse)
     RMSE value for Random Forest is: 9.757713738069647
```