```
In [ ]:
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
In [ ]:
url = 'C:\\Users\\mohit\\Desktop\\LP III\\ML\\6\\uber.csv'
df = pd.read_csv(url)
In [ ]:
df
In [ ]:
df.describe()
In [ ]:
corr = df.corr()
corr
In [ ]:
x = df['distance'].values.reshape(-1, 1)
y = df['fare_amount'].values.reshape(-1, 1)
In [ ]:
from sklearn.preprocessing import StandardScaler
std = StandardScaler()
x = std.fit_transform(x)
y = std.fit_transform(y)
In [ ]:
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.2)
In [ ]:
from sklearn.linear_model import LinearRegression
lr = LinearRegression()
lr.fit(x_train, y_train)
y_pred = lr.predict(x_test)
In [ ]:
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print("train score: ", lr.score(x_train, y_train))
print("test score: ", lr.score(x_test, y_test))

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In [ ]:
from sklearn import metrics
In [ ]:
print(metrics.r2_score(y_test, y_pred))
In [ ]:
print(metrics.mean_squared_error(y_test, y_pred))
In [ ]:
print(metrics.mean_absolute_error(y_test, y_pred))
In [ ]:
print(np.sqrt(metrics.mean_squared_error(y_test, y_pred)))
In [ ]:
df = {'actual': y_test, 'predicted': y_pred}
In [ ]:
!pip install tabulate
In [ ]:
from tabulate import tabulate
print(tabulate(df, headers = 'keys'))
In [ ]:
print(lr.intercept_)
```

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print(lr.coef_)