

```
#problem solving survey of collected data of startup using dataset
```

```
#step 1:  
import numpy as np  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns
```

```
from google.colab import files  
uploaded = files.upload()
```

Choose files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving 50_Startups.csv to 50_Startups.csv

```
df = pd.read_csv('50_Startups.csv')
```

```
-----  
FileNotFoundException          Traceback (most recent call last)  
/tmp/ipython-input-3169187586.py in <cell line: 0>()  
----> 1 df = pd.read_csv('50_Startups.csv')  
  
-----  
        ▾ 4 frames -----  
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)  
  871      if ioargs.encoding and "b" not in ioargs.mode:  
  872          # Encoding  
--> 873          handle = open(  
  874              handle,  
  875              ioargs.mode,  
  
FileNotFoundException: [Errno 2] No such file or directory: '50_Startups.csv'
```

Next steps: [Explain error](#)

```
import pandas as pd  
df = pd.read_csv('50_Startups.csv')
```

```
-----  
FileNotFoundException          Traceback (most recent call last)  
/tmp/ipython-input-3909762965.py in <cell line: 0>()  
  1 import pandas as pd  
----> 2 df = pd.read_csv('50_Startups.csv')  
  
-----  
        ▾ 4 frames -----  
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)  
  871      if ioargs.encoding and "b" not in ioargs.mode:  
  872          # Encoding  
--> 873          handle = open(  
  874              handle,  
  875              ioargs.mode,  
  
FileNotFoundException: [Errno 2] No such file or directory: '50_Startups.csv'
```

Next steps: [Explain error](#)

```
df.head()
```

```
-----  
NameError          Traceback (most recent call last)  
/tmp/ipython-input-1344414169.py in <cell line: 0>()  
----> 1 df.head()  
      2  
  
NameError: name 'df' is not defined
```

```
df.info()
```

```
-----  
NameError          Traceback (most recent call last)  
/tmp/ipython-input-3771845804.py in <cell line: 0>()  
----> 1 df.info()  
  
NameError: name 'df' is not defined
```

```
df.shape
```

```
-----  
NameError          Traceback (most recent call last)  
/tmp/ipython-input-857714779.py in <cell line: 0>()  
----> 1 df.shape  
  
NameError: name 'df' is not defined
```

```
df = df.drop('State', axis=True)
```

```
df.head()
```

```
NameError
```

```
Traceback (most recent call last)
```

```
corr = df.corr()  
sns.heatmap(corr, annot = True)
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-2889783282.py in <cell line: 0>()  
----> 1 corr = df.corr()  
      2 sns.heatmap(corr, annot = True)  
  
NameError: name 'df' is not defined
```

```
x = df.drop('Profit', axis=True)  
y = df['Profit']
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-1960602326.py in <cell line: 0>()  
----> 1 x = df.drop('Profit', axis=True)  
      2 y = df['Profit']  
  
NameError: name 'df' is not defined
```

```
x.head() #before standardize
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-3190858357.py in <cell line: 0>()  
----> 1 x.head() #before standardize  
  
NameError: name 'x' is not defined
```

```
from sklearn.preprocessing import StandardScaler  
sc = StandardScaler()  
x = sc.fit_transform(x)
```

```
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, random_state=0)
```

```
x_train.shape, x_test.shape, y_train.shape, y_test.shape
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-4183739024.py in <cell line: 0>()  
----> 1 x_train.shape, x_test.shape, y_train.shape, y_test.shape  
  
NameError: name 'x_train' is not defined
```

```
from sklearn.linear_model import LinearRegression  
regression = LinearRegression()  
regression.fit(x_train, y_train)
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-2128641244.py in <cell line: 0>()  
----> 1 from sklearn.linear_model import LinearRegression  
      2 regression = LinearRegression()  
      3 regression.fit(x_train, y_train)  
  
NameError: name 'x_train' is not defined
```

```
x_train.shape, x_test.shape, y_train.shape, y_test.shape
```

```
from sklearn.linear_model import LinearRegression  
regression = LinearRegression()  
regression.fit(x_train, y_train)
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-2128641244.py in <cell line: 0>()  
----> 1 from sklearn.linear_model import LinearRegression  
      2 regression = LinearRegression()  
      3 regression.fit(x_train, y_train)  
  
NameError: name 'x_train' is not defined
```

```
y_pred = regression.predict(x_test).round(1)
```

```
calculation = pd.DataFrame(np.c_[y_test, y_pred], columns=["Original Salary", "predict Salary"])  
calculation.head(5)
```

```
NameError Traceback (most recent call last)  
/tmp/ipython-input-2835968914.py in <cell line: 0>()  
----> 1 calculation = pd.DataFrame(np.c_[y_test, y_pred], columns=["Original Salary", "predict Salary"])  
      2 calculation.head(5)
```

```
NameError: name 'pd' is not defined
```

```
print("Training Accuracy", regression.score(x_train, y_train))  
print("test Accuracy", regression.score(x_test, y_test))
```

```
NameError Traceback (most recent call last)
/tmp/ipython-input-4156230847.py in <cell line: 0>()
----> 1 print("Training Accuracy", regression.score(x_train,y_train))
      2 print("test Accuracy", regression.score(x_test,y_test))

NameError: name 'x_train' is not defined
```

```
regression.intercept_
```

```
AttributeError Traceback (most recent call last)
/tmp/ipython-input-2787009467.py in <cell line: 0>()
----> 1 regression.intercept_
      AttributeError: 'LinearRegression' object has no attribute 'intercept_'
```

```
regression.coef_
```

```
AttributeError Traceback (most recent call last)
/tmp/ipython-input-1325692839.py in <cell line: 0>()
----> 1 regression.coef_
      AttributeError: 'LinearRegression' object has no attribute 'coef_'
```

```
feature=[1653490.0,136897]
```

```
feature = [165349.20,136897.80,471784.10]
scale_feature = sc.transform([feature])
print(scale_feature)
```

```
y_pred_test = regressor.predict(scale_feature)
y_pred_test #by using library
```

```
NameError Traceback (most recent call last)
/tmp/ipython-input-2515437553.py in <cell line: 0>()
----> 1 y_pred_test = regressor.predict(scale_feature)
      2 y_pred_test #by using library
      NameError: name 'regressor' is not defined
```

```
Start coding or generate with AI.
```

```
y_pred_test = regression.predict(scale_feature)
y_pred_test #by using library
```

```
NameError Traceback (most recent call last)
/tmp/ipython-input-666096526.py in <cell line: 0>()
----> 1 y_pred_test = regression.predict(scale_feature)
      2 y_pred_test #by using library
      NameError: name 'regression' is not defined
```