```
!pip install pandas
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (1.5.3)
Requirement already satisfied: python-dateutil>=2.8.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2022.7.1)
Requirement already satisfied: numpy>=1.21.0 in /usr/local/lib/python3.10/dist-packages (from pandas) (1.22.4)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.1->pandas) (1.16.0)
```

```
!pip install numpy
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (1.22.4)
```

```
import numpy as np
import pandas as pd
```

```
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

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

```
dataset.head()
```

	R&D Spend	Administration	Marketing Spend	State	Profit
0	165349.20	136897.80	471784.10	New York	192261.83
1	162597.70	151377.59	443898.53	California	191792.06
2	153441.51	101145.55	407934.54	Florida	191050.39
3	144372.41	118671.85	383199.62	New York	182901.99
4	142107.34	91391.77	366168.42	Florida	166187.94

```
dataset.isnull().any()
```

```
R&D Spend          False
Administration     False
Marketing Spend    False
State              False
Profit             False
dtype: bool
```

label encoding

```
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
dataset['State'] =  le.fit_transform(dataset['State'])
```

```
x = dataset.iloc[:,0:4].values
y = dataset.iloc[:,4:5].values
```

```
x.dtype
```

```
dtype('float64')
```

```
from sklearn.preprocessing import OneHotEncoder
one = OneHotEncoder()
```

train ,test &split

```
from sklearn.model_selection import train_test_split
x_train,x
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-28-94243ac29b2b> in <cell line: 2>()
      1 from sklearn.model_selection import train_test_split
----> 2 x_train,x

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

SEARCH STACK OVERFLOW

```
import tensorflow.keras
from tensorflow.keas.models import sequentia
from tensorflow.keras.layers import dense
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
<ipython-input-30-b167a2a29e14> in <cell line: 2>()
      1 import tensorflow.keras
----> 2 from tensorflow.keas.models import sequentia
      3 from tensorflow.keras.layers import dense

ModuleNotFoundError: No module named 'tensorflow.keas'

---------------------------------------------------------------------------
NOTE: If your import is failing due to a missing package, you can
manually install dependencies using either !pip or !apt.

To view examples of installing some common dependencies, click the
"Open Examples" button below.
---------------------------------------------------------------------------
```

SEARCH STACK OVERFLOW

```
import pandas as pd
data = {'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 35]}
df = pd.DataFrame(data)
df = df.drop(1)
print(df)
```

```
Object `snippet` not found.
      name  age
0    Alice   25
2  Charlie   35
```

```
import pandas as pd
data = {'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 35]}
df = pd.DataFrame(data)
df = df.drop(1)
print(df)
```

```
      name  age
0    Alice   25
2  Charlie   35
```

```
import numpy as np
arr = np.array([1, 2, 3])
print(arr.ndim)
```

```
1
```

```
import numpy as np
arr = np.array([1, 2, 3])
print(arr.dtype)
```

```
int64
```

```
import numpy as np
arr = np.zeros(5)
print(arr)
```

```
[0. 0. 0. 0. 0.]
```

```
import pandas as pd
data = {'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 35]}
df = pd.DataFrame(data)
print(df['name'])
```

```
0      Alice
1        Bob
2    Charlie
Name: name, dtype: object
```