```
import numpy as np
import pandas as pd
df=pd.read_csv('Salary_data.csv')
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30 entries, 0 to 29
Data columns (total 2 columns):
 #   Column           Non-Null Count  Dtype  
---  ------           --------------  -----  
 0   YearsExperience  30 non-null     float64
 1   Salary           30 non-null     int64  
dtypes: float64(1), int64(1)
memory usage: 608.0 bytes
```

```
df.dropna(inplace=True)
```

Generate randomly select 5 items from a list Close

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30 entries, 0 to 29
Data columns (total 2 columns):
 #   Column           Non-Null Count  Dtype  
---  ------           --------------  -----  
 0   YearsExperience  30 non-null     float64
 1   Salary           30 non-null     int64  
dtypes: float64(1), int64(1)
memory usage: 608.0 bytes
```

```
df.describe()
```

| | YearsExperience | Salary |
|---|---|---|
| **count** | 30.000000 | 30.000000 |
| **mean** | 5.313333 | 76003.000000 |
| **std** | 2.837888 | 27414.429785 |
| **min** | 1.100000 | 37731.000000 |
| **25%** | 3.200000 | 56720.750000 |
| **50%** | 4.700000 | 65237.000000 |
| **75%** | 7.700000 | 100544.750000 |
| **max** | 10.500000 | 122391.000000 |

**Generate** a slider using jupyter widgets **Close**

```
features=df.iloc[:,[0]].values
label=df.iloc[:,[1]].values
```

```
from sklearn.model_selection import train_test_split

x_train, x_test, y_train, y_test = train_test_split(features, label, test_size=0.2, random_s
```

**Generate** print hello world using rot13 **Close**

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

```
▾ LinearRegression ⓘ ?
LinearRegression()
```

```
model.score(x_train,y_train)
```

```
0.9645401573418146
```

```
model.score(x_test,y_test)
```

```
0.9024461774180497
```

```
model.coef_
```

```
array([[9423.81532303]])
```

Generate a slider using jupyter widgets Close

```
model.intercept_
```

```
array([25321.58301178])
```

Generate a slider using jupyter widgets Close

```
import pickle
pickle.dump(model,open('SalaryPred.model','wb'))
```

```
model=pickle.load(open('SalaryPred.model','rb'))
```

```
yr_of_exp=float(input("Enter Years of Experience: "))
yr_of_exp_NP=np.array([[yr_of_exp]])
Salary=model.predict(yr_of_exp_NP)
```

```
Enter Years of Experience: 25
```

```
print("Estimated Salary for {} years of experience is: {}".format(yr_of_exp, Salary))
```

```
Estimated Salary for 25.0 years of experience is: [[260916.96608755]]
```

Start coding or generate with AI.