In [1]:

```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

# Sample dataset with some None values
data = {
    'YearsExperience': [1.1, 1.5, 2.0, 3.0, 4.0, None, 5.0, 6.0, 7.0
    'Salary': [40000, 45000, 50000, 60000, 65000, None, 70000, 80000
}

# Create DataFrame
df = pd.DataFrame(data)

# Fill None values with the mean of their column
df = df.fillna(df.mean())

# Define features and target variable
X = df[['YearsExperience']]
y = df['Salary']

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=(

# Create and train the model
model = LinearRegression()
model.fit(X_train, y_train)

# User input for prediction
years_experience = float(input("Enter years of experience: "))
predicted_salary = model.predict([[years_experience]])

print("Predicted Salary:", predicted_salary[0])
```

```
Enter years of experience: 3.0
Predicted Salary: 56426.83421159303
```

```
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:465: UserWarning: X does
not have valid feature names, but LinearRegression was fitted with feature names
  warnings.warn(
```