In [1]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.linear_model import LinearRegression
```

In [2]:
```
df = pd.read_csv('hiring.csv')
```

In [3]:
```
df
```

Out[3]:

	experience	test_score(out of 10)	interview_score(out of 10)	salary($)
0	NaN	8.0	9	50000
1	NaN	8.0	6	45000
2	five	6.0	7	60000
3	two	10.0	10	65000
4	seven	9.0	6	70000
5	three	7.0	10	62000
6	ten	NaN	7	72000
7	eleven	7.0	8	80000

In [4]:
```
df['experience']=df.experience.fillna('zero')
```

In [5]:
```
df
```

Out[5]:

	experience	test_score(out of 10)	interview_score(out of 10)	salary($)
0	zero	8.0	9	50000
1	zero	8.0	6	45000
2	five	6.0	7	60000
3	two	10.0	10	65000
4	seven	9.0	6	70000
5	three	7.0	10	62000
6	ten	NaN	7	72000
7	eleven	7.0	8	80000

In [6]:
```
df['test_score(out of 10)'] = df['test_score(out of 10)'].fillna(df['test_s
df
```

Out[6]:

	experience	test_score(out of 10)	interview_score(out of 10)	salary($)
0	zero	8.0	9	50000
1	zero	8.0	6	45000
2	five	6.0	7	60000
3	two	10.0	10	65000
4	seven	9.0	6	70000
5	three	7.0	10	62000
6	ten	8.0	7	72000
7	eleven	7.0	8	80000

In [8]:
```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
import numpy as np

data = pd.read_csv('hiring.csv')
#used dictionary mapping to convert text based data into numeric data
experience_mapping = {
    'zero': 0, 'one': 1, 'two': 2, 'three': 3, 'four': 4,
    'five': 5, 'six': 6, 'seven': 7, 'eight': 8, 'nine': 9, 'ten': 10,
    'eleven': 11, 'twelve': 12
}

data['experience'] = data['experience'].map(experience_mapping)
data['experience'] = data['experience'].fillna(0)


data['test_score(out of 10)'] = data['test_score(out of 10)'].fillna(data['

X = data[['experience', 'test_score(out of 10)', 'interview_score(out of 10
y = data['salary($)']

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2)

model = LinearRegression()
model.fit(X_train, y_train)

candidates = [[2, 9, 6], [12, 10, 10]]
predicted_salaries = model.predict(candidates)
print(predicted_salaries)
```

```
[53563.75838926 92348.99328859]
```

In [ ]:
```
```