Run Library

In [4]:
```
import pandas as pd
```

Run Data

In [5]:
```
Df = pd.read_csv("Final_Results.csv")
```

In [7]:
```
Df.head()
```

Out[7]:

	AWB Code	Order ID	Charged Weight	Warehouse Pincode	Customer Pincode	Zone	Type of Shipment	Billing Amount (Rs.)	Char Billed Cou Comp (
0	1091117222124	2001806232	1.30	121003	507101	d	Forward charges	135.0	113
1	1091117222194	2001806273	1.00	121003	486886	d	Forward charges	90.2	113
2	1091117222931	2001806408	2.50	121003	532484	d	Forward charges	224.6	113
3	1091117223244	2001806458	1.00	121003	143001	b	Forward charges	61.3	19
4	1091117229345	2001807012	0.15	121003	515591	d	Forward charges	45.4	113

Find Out Correctly Charged Amount, Over Charged And Under Charged

In [54]:
```
# Correctly Charged Orders
correctly_charged = Df[(Df['Billing Amount (Rs.)'] >= 71) & (Df['Billing Amount
correctly_charged_count = correctly_charged.shape[0]
correctly_charged_amount = correctly_charged['Billing Amount (Rs.)'].sum()
```

In [55]:
```
correctly_charged_count
```

Out[55]: 70

In [56]:
```
correctly_charged_amount
```

Out[56]: 6804.8

In [39]:
```
# Over Charged Orders
Over_charged = Df[(Df['Billing Amount (Rs.)'] >= 151) & (Df['Billing Amount (Rs
Over_charged_count = Over_charged.shape[0]
Over_charged_amount = Over_charged['Billing Amount (Rs.)'].sum()
```

In [40]:
```
Over_charged_count
```

Out[40]: 25

In [41]:
```
Over_charged_amount
```

Out[41]: 5405.0

In [48]:
```
# Under Charged Orders
Under_charged = Df[(Df['Billing Amount (Rs.)'] >= 0) & (Df['Billing Amount (Rs
Under_charged_count = Under_charged.shape[0]
Under_charged_amount = Under_charged['Billing Amount (Rs.)'].sum()
```

In [49]:
```
Under_charged_count
```

Out[49]: 29

In [50]:
```
Under_charged_amount
```

Out[50]: 1438.4

Final DataFrame Results

In [58]:
```
# Summary Table Creation
summary_data = {
    'Category': ['Total orders where X has been correctly charged', 'Total Orde
    'Count_Of_Orders': [correctly_charged_count, Over_charged_count, Under_char
    'Amount (Rs.)': [correctly_charged_amount, Over_charged_amount, Under_charg
}

Summary_Data = pd.DataFrame(summary_data)
```

In [59]:
```
Summary_Data
```

Out[59]:

	Category	Count_Of_Orders	Amount (Rs.)
0	Total orders where X has been correctly charged	70	6804.8
1	Total Orders where X has been overcharged	25	5405.0
2	Total Orders where X has been undercharged	29	1438.4

Results to CSV File

In [60]:
```
Summary_Data.to_csv('Final_Assignment_Results.csv', index=False)
```

In [ ]:
```

```