

```
In [32]: df1[['Address', 'State', 'Zip_Code']] = df1['Address'].str.split(',', n= 2, expand=True)
```

```
In [33]: df
```

Original Data

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Out[33]:
```

	CustomerID	First_Name	Last_Name	Phone_Number	Address	Paying Customer	Do_Not_Contact	Not_Useful_Column	State	Zip_Code
0	1001	Frodo	Baggins	123545542	123 Shire Lane	Y	N	True	Shire	None
1	1002	Abed	Nadir	123643977	93 West Main Street	N	Y	False	None	None
2	1004	Dwight	Schrute	123543234	980 Paper Avenue	Y	Y	True	Pennsylvania	18503
3	1005	Jon	Snow	876678346	123 Dragons Road	Y	N	True	None	None
4	1006	Ron	Swanson	304762246	768 City Parkway	Y	Y	True	None	None
5	1008	Sherlock	Holmes	876678346	98 Clue Drive	N	N	False	None	None
6	1010	Peter	Parker	123545542	25th Main Street	Y	N	True	New York	None
7	1013	Don	Draper	123543234	2039 Main Street	Y	N	False	None	None
8	1014	Leslie	Knope	876678346	343 City Parkway	Y	N	False	None	None
9	1015	Toby	Flenderson	304762246	214 HR Avenue	N	N	False	None	None
10	1016	Ron	Weasley	123545542	2395 Hogwarts Avenue	N	N	False	None	None
11	1017	Michael	Scott	123643977	121 Paper Avenue	Y	N	False	Pennsylvania	None
12	1020	Anakin	Skywalker	876678346	910 Tatooine Road	Y	N	True	Tatooine	None
13	1020	Anakin	Skywalker	876678346	910 Tatooine Road	Y	N	True	Tatooine	None

```
In [1]: import pandas as pd
df = pd.read_excel("Customer Call List.xlsx")
df
```

After Cleaning data using pandas

```
Out[1]:
```

	CustomerID	First_Name	Last_Name	Phone_Number	Address	Paying Customer	Do_Not_Contact	Not_Useful_Column
0	1001	Frodo	Baggins	123-545-5421	123 Shire Lane, Shire	Yes	No	True
1	1002	Abed	Nadir	123/643/9775	93 West Main Street	No	Yes	False
2	1003	Walter	/White	7066950392	298 Drugs Driveway	N	NaN	True
3	1004	Dwight	Schrute	123-543-2345	980 Paper Avenue, Pennsylvania, 18503	Yes	Y	True
4	1005	Jon	Snow	876/678/3469	123 Dragons Road	Y	No	True
5	1006	Ron	Swanson	304-762-2467	768 City Parkway	Yes	Yes	True
6	1007	Jeff	Winger	NaN	1209 South Street	No	No	False
7	1008	Sherlock	Holmes	876/678/3469	98 Clue Drive	N	No	False
8	1009	Gandalf	NaN	N/a	123 Middle Earth	Yes	NaN	False
9	1010	Peter	Parker	123-545-5421	25th Main Street, New York	Yes	No	True
10	1011	Samwise	Gamgee	NaN	612 Shire Lane, Shire	Yes	No	True
11	1012	Harry	...Potter	7066950392	2394 Hogwarts Avenue	Y	NaN	True
12	1013	Don	Draper	123-543-2345	2039 Main Street	Yes	N	False
13	1014	Leslie	Knope	876/678/3469	343 City Parkway	Yes	No	False
14	1015	Toby	Flenderson_	304-762-2467	214 HR Avenue	N	No	False
15	1016	Ron	Weasley	123-545-5421	2395 Hogwarts Avenue	No	N	False
16	1017	Michael	Scott	123/643/9775	121 Paper Avenue, Pennsylvania	Yes	No	False