df = pd.read_csv('second_hand_cars.csv')
df.sample(4)

→		Company Name	Car Name	Variant	Fuel Type	Tyre Condition	Make Year	Owner Type	Registration Number	Mileage	Price	Transmission Type	Body Color	Service Record	Insu
	2200	Nissan	Camry	LE	CNG	Used	2017	First	63-490-6659	18222	583656	Automatic (Tiptronic)	Maroon	Major Service at 149889 km	Vali
	982	Nissan	Camry	XL	Diesel	Needs Replacement	2021	First	18-176-2046	137747	853519	Automatic	Maroon	No Service Record	No (Ins
	2007	Hyundai	Swift	Highline	Diesel	Used	2024	First	18-783-2629	14829	537052	Manual	White	Major Service at 110951 km	Vali
	2276	Volkswagen	Sunny	SE	CNG	Used	2016	First	91-573-2341	194124	361256	Automatic	Grey	No Service Record	Vali

df.info()
df.isnull().sum()

#	Column	Non-Null Count	Dtype		
0	Company Name	2500 non-null	object		
1	Car Name	2500 non-null	object		
2	Variant	2238 non-null	object		
3	Fuel Type	2500 non-null	object		
4	Tyre Condition	2500 non-null	object		
5	Make Year	2500 non-null	int64		
6	Owner Type	2500 non-null	object		
7	Registration Number	2500 non-null	object		
8	Mileage	2500 non-null	int64		
9	Price	2500 non-null	int64		
10	Transmission Type	2500 non-null	object		
11	Body Color	2500 non-null	object		
12	Service Record	2500 non-null	object		
13	Insurance	2500 non-null	object		
14	Registration Certificate	2500 non-null	object		
15	Accessories	2018 non-null	object		
	1 (64/2) 1 1 (42)				

dtypes: int64(3), object(13) memory usage: 312.6+ KB Company Name 0 Car Name 0 262 Variant Fuel Type 0 Tyre Condition Make Year Owner Type Registration Number Mileage 0 Price Transmission Type Body Color Service Record 0 Insurance 0 Registration Certificate 0 Accessories 482

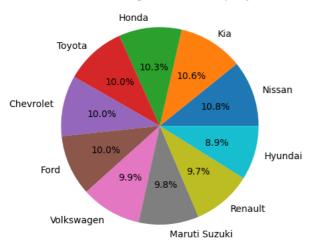
dtype: int64

Brand = df['Company Name'].value_counts()
plt.pie(Brand, labels=Brand.index,autopct='%1.1f%%')
plt.title("Sell Percentage of Car's Company ")
plt.show()

В

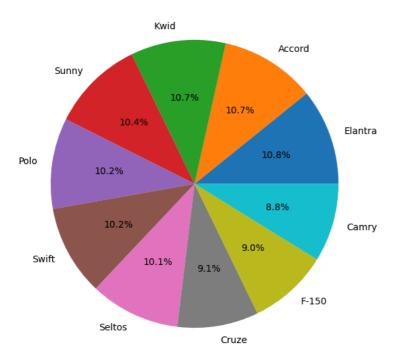
$\overline{\Rightarrow}$

Sell Percentage of Car's Company



$\overline{\Rightarrow}$

Sell of Different Car's Models



```
variant = ['SE','RXE','GT','Highline','XL ','EX','LE','SL','ZXI']

for x in range(len(cars)):
    # print(f'{df[df['Car Name'] == cars[x]]['Variant'].value_counts()}')
    print(f"{df[df['Car Name'] == cars[x]]['Variant'].value_counts()}")
    fig = plt.figure(figsize=(10, 7))
    plt.pie(df[df['Car Name'] == cars[x]]['Variant'].value_counts(), labels=variant,autopct='%1.1f%%')
    plt.title(f"{cars[x]}'s Sell of Variants")
    plt.show()
```

Variant

SL 32

XL 28

Highline 27

EX 26

LE 25

RXE 24

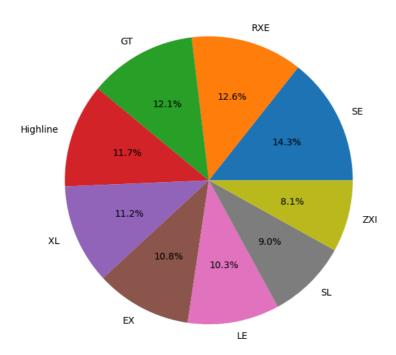
ZXI 23

SE 20

GT 18

Name: count, dtype: int64

Elantra's Sell of Variants



Variant
ZXI 42
XL 32
Highline 26
SL 23
LE 23
RXE 22
GT 22
SE 19
EX 17

Name: count, dtype: int64

Accord's Sell of Variants

В







```
owner = df['Owner Type'].value_counts()
plt.pie(owner,labels=owner.index,autopct='%1.1f%%')
plt.title("Owner's type")
plt.show()
```