In [12]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
```

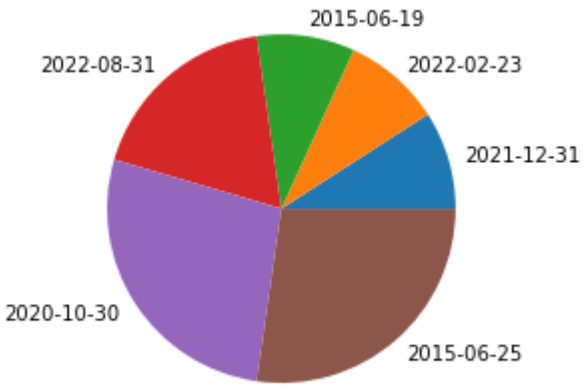
In [13]:
```
df = df = pd.read_csv('C:/Users/Ezra Muir/Documents/Training-Work/Python/Nov_Learn/
df
```

Out[13]:

	id	tran_dt	tran_amt	cust_id	acc_id	loan_id
0	2	2021-12-31	100001.0	1	1	NaN
1	3	2022-02-23	6000.0	1	1	NaN
2	4	2015-06-19	700.0	1	1	NaN
3	5	2022-08-31	90.0	2	2	2.0
4	6	2020-10-30	300.0	3	3	2.0
5	7	2015-06-25	200.0	3	3	2.0

In [14]:
```
# plt.pie(kernel_stats['total_count'], labels=kernel_stats['library'])
plt.pie(df['acc_id'], labels=df['tran_dt'])
```

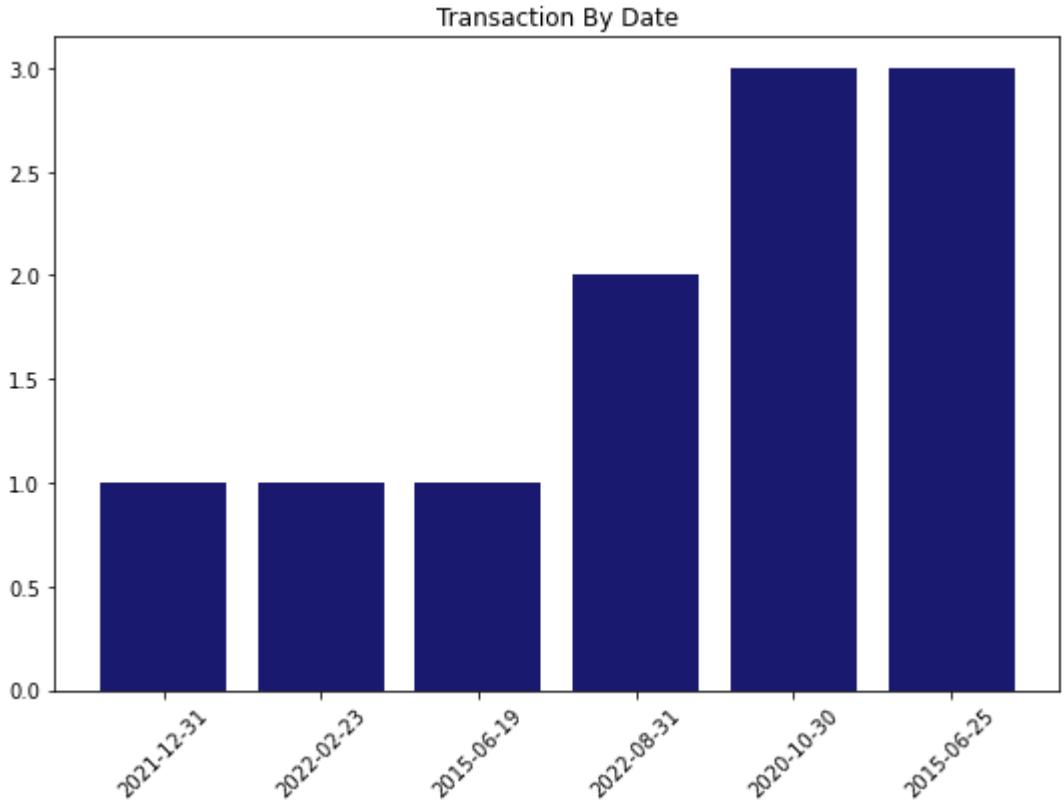
Out[14]:
```
([<matplotlib.patches.Wedge at 0x1e12ceaefa0>,
  <matplotlib.patches.Wedge at 0x1e12cebe4c0>,
  <matplotlib.patches.Wedge at 0x1e12cebe9a0>,
  <matplotlib.patches.Wedge at 0x1e12cebee80>,
  <matplotlib.patches.Wedge at 0x1e12ce753a0>,
  <matplotlib.patches.Wedge at 0x1e12ce75880>],
 [Text(1.0554422683381766, 0.30990582150899426, '2021-12-31'),
  Text(0.7203467861122989, 0.8313245501834299, '2022-02-23'),
  Text(0.15654627576372776, 1.0888035927312634, '2015-06-19'),
  Text(-0.7203468639465174, 0.8313244827396927, '2022-08-31'),
  Text(-0.9253788203103135, -0.5947050015941457, '2020-10-30'),
  Text(0.7203469417807291, -0.8313244152959488, '2015-06-25')])
```



Bar Label Demo

In [15]:
```
plt.figure(figsize=(9,6))
```

```
plt.bar(x=df['tran_dt'], height=df['cust_id'], color='midnightblue')
plt.xticks(rotation=45)
plt.title('Transaction By Date')
# Save figure
# plt.savefig('Customer Transaction.png')
plt.savefig('CustTran.pdf')
```



In [15]: