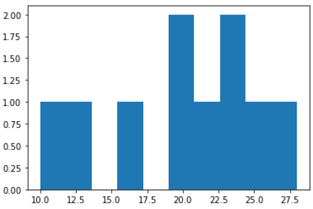
In [2]:
```
import string
dict1={}
with open("numbers.txt", "r") as f:
    text = f.read()
    words = text.split()
    table=str.maketrans("","",string.punctuation)
    stripped = [w.translate(table)for w in words]
for line in stripped:
    for num in line:
        if num in dict1:
            dict1[num]=dict1[num]+1
        else:
            dict1[num]=1;
dict1
```

Out[2]:
```
{'2': 19,
 '4': 22,
 '6': 26,
 '8': 13,
 '5': 10,
 '1': 28,
 '9': 24,
 '0': 23,
 '7': 17,
 '3': 20}
```

In [4]:
```
import matplotlib.pyplot as plt
plt.hist(dict1.values())
plt.show()
```



In [5]:
```
import json
with open('frequency.json','w') as f:
    json.dump(dict1,f)
```

In [7]:
```
import pandas as pd
data=pd.read_csv("C:\\Users\\HP\\Downloads\\01-Jan-2019_to_06-Nov-2022.csv")
```

In [8]:
```
data=data.fillna(0)
```

In [9]:
```
data.shape
```

Out[9]:
```
(26, 36)
```

In [10]:
```
data["Item Total"] = data["Item Total"].str.replace('$','').astype(float)
```

```
C:\Users\HP\AppData\Local\Temp\ipykernel_23940\2259718141.py:1: FutureWarning: The default value of regex will change from True to False in a future version.
In addition, single character regular expressions will *not* be treated as literal strings when regex=True.
  data["Item Total"] = data["Item Total"].str.replace('$','').astype(float)
```

In [11]:
```
data["Item Total"].sum()
```

Out[11]:
```
1737.2499999999998
```

In [12]:
```
data["Item Total"].mean()
```

Out[12]:
```
66.81730769230768
```

In [13]:
```
data["Item Total"].max()
```

Out[13]:
```
243.79
```

In [14]:
```
data["Item Total"].min()
```

Out[14]:
```
11.66
```

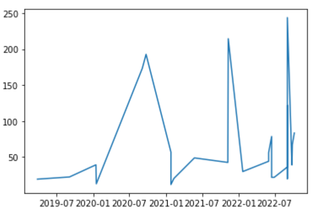
In [15]:
```
import statistics as stat
stat.stdev(data["Item Total"])
```

Out[15]:
```
66.31732139088201
```

In [16]:
```
data["Order Date"] = pd.to_datetime(data["Order Date"])
```

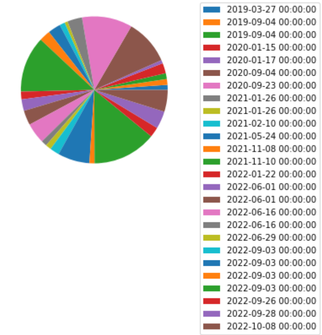
In [17]:
```
import matplotlib.pyplot as plt
import numpy as np
x= data["Order Date"]
y= data["Item Total"]
plt.plot(x,y)
plt.show
```

Out[17]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [18]:
```
import matplotlib.pyplot as plt
plt.pie(data["Item Total"])
plt.legend(data["Order Date"], bbox_to_anchor= (1.05, 1.0),loc = 'upper left')
plt.show
```

Out[18]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [19]:
```
data["Item Subtotal Tax"] = data["Item Subtotal Tax"].str.replace('$','').astype(float)
```

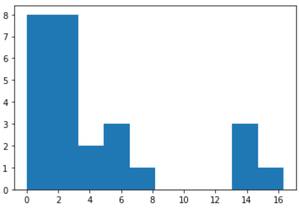
```
C:\Users\HP\AppData\Local\Temp\ipykernel_23940\134126073.py:1: FutureWarning: The default value of regex will change from True to False in a future version. In addition, single character regular expressions will *not* be treated as literal strings when regex=True.
  data["Item Subtotal Tax"] = data["Item Subtotal Tax"].str.replace('$','').astype(float)
```

In [20]:
```
stat.stdev(data["Item Subtotal Tax"])
```

Out[20]:
```
4.8309991322069825
```

In [23]:
```
plt.hist(data["Item Subtotal Tax"])
```

Out[23]:
```
(array([8., 8., 2., 3., 1., 0., 0., 0., 3., 1.]),
 array([ 0.   ,  1.634,  3.268,  4.902,  6.536,  8.17 ,  9.804, 11.438,
        13.072, 14.706, 16.34 ]),
 <BarContainer object of 10 artists>)
```



In [ ]:
```
```