In [2]:
```
#DSC540 Spashtunyar
#Week 10 visualization
```

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

In [44]:
```
Candydata = pd.read_excel("CandyData.xlsx")
Candydata = Candydata.drop([86])
Candydata
```

```
C:\Users\spashtunyar\Anaconda3\lib\site-packages\openpyxl\worksheet\_reader.py:312: U
serWarning: Unknown extension is not supported and will be removed
  warn(msg)
```

Out[44]:

	ITEM	JOY	DESPAIR	NET FEELIES	NET CLOUT	DESPAIR (NEG)
0	York Peppermint Patties	634	78	556.0	1.639118	-78.0
1	Whole Wheat anything	21	419	-398.0	1.012938	-419.0
2	White Bread	15	473	-458.0	1.123440	-473.0
3	Vicodin	323	210	113.0	1.227036	-210.0
4	Twix	770	26	744.0	1.832497	-26.0
...	...	...	...	...	...	...
81	Bonkers	31	99	-68.0	0.299277	-99.0
82	Black Jacks	34	252	-218.0	0.658410	-252.0
83	Any full-sized candy bar	828	13	815.0	1.936093	-13.0
84	Anonymous brown globs that come in black and o...	120	663	-543.0	1.802569	-663.0
85	100 Grand Bar	570	34	536.0	1.390488	-34.0

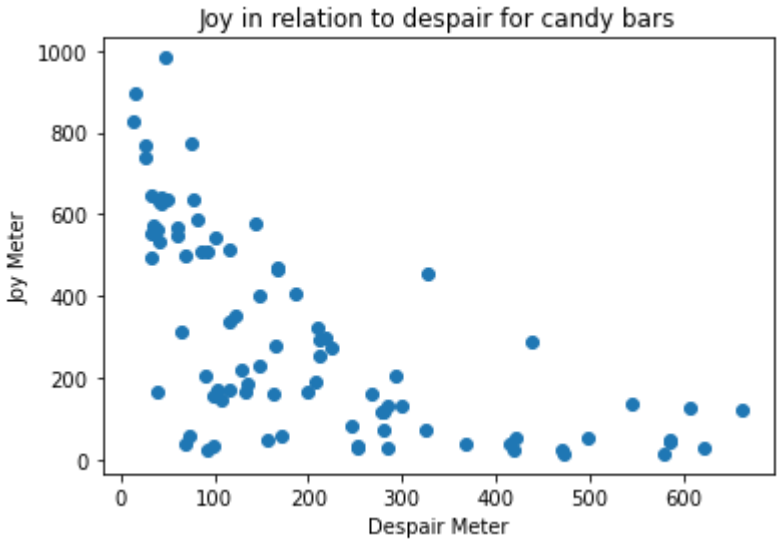
86 rows × 6 columns

In [45]:
```
import numpy as np
import pandas as pd

import matplotlib as mpl
import matplotlib.pyplot as plt

import seaborn as sns
```

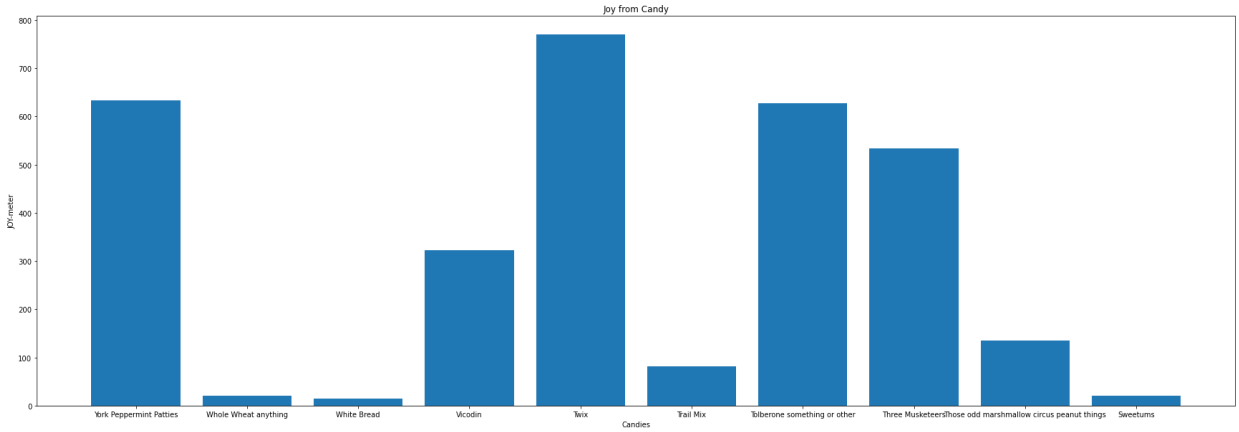
In [46]:
```
plt.scatter(Candydata['DESPAIR'], Candydata['JOY'])
plt.ylabel('Joy Meter')
plt.xlabel('Despair Meter')
plt.title('Joy in relation to despair for candy bars')
plt.show()
```



In [69]:
```
from matplotlib.pyplot import figure
```

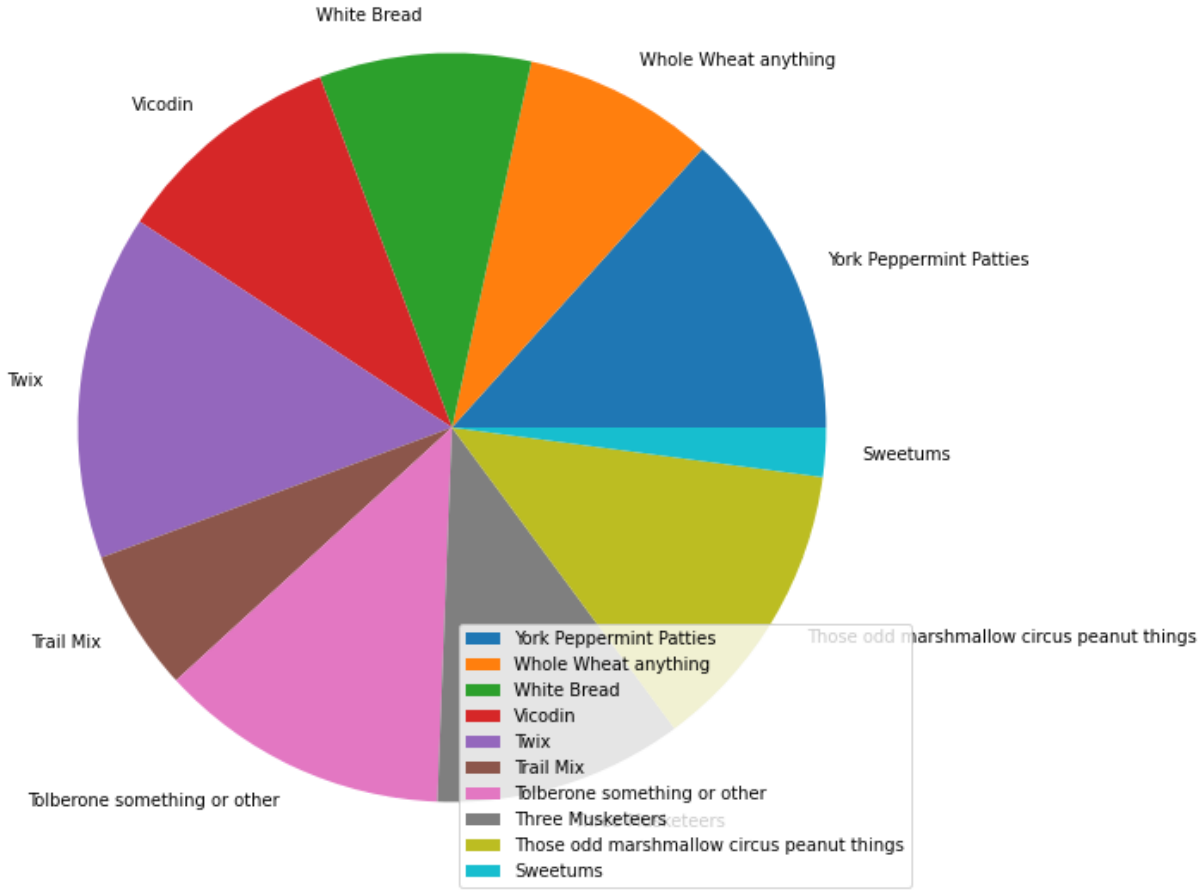
In [63]:
```
Candy10 = Candydata[0:10]
```

In [97]:
```
plt.bar(Candy10["ITEM"],Candy10['JOY'])
plt.title('Joy from Candy')
plt.xlabel('Candies')
plt.ylabel('JOY-meter')
plt.rcParams["figure.figsize"] = (30,10)
```



In [104…
```
plt.pie(Candy10['NET CLOUT'], labels = Candy10['ITEM'])
plt.legend()
```

Out[104]:
```
<matplotlib.legend.Legend at 0x24b9a174be0>
```


White Bread
Whole Wheat anything
Vicodin
York Peppermint Patties
Twix
Sweetums
Trail Mix
Those odd marshmallow circus peanut things
Tolberone something or other
York Peppermint Patties
Whole Wheat anything
White Bread
Vicodin
Twix
Trail Mix
Tolberone something or other
Three Musketeers
Those odd marshmallow circus peanut things
Sweetums

In [ ]: