In [1]:
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
cupcakes = pd.read_csv("C:\\Users\\Gabe\\Documents\\Bellevue University\\Data Prep
```

In [2]:
```

```

Out[2]:

	Month	Cupcake: (Worldwide)
0	2004-01	5
1	2004-02	6
2	2004-03	6
3	2004-04	5
4	2004-05	6

In [3]:
```
cupcakes[['Year', 'Month']] = cupcakes.Month.str.split("-",expand=True)
```

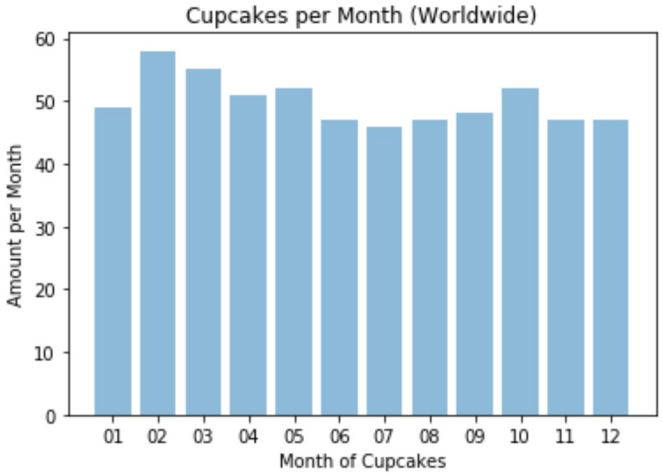
Out[3]:

	Month	Cupcake: (Worldwide)	Year
0	01	5	2004
1	02	6	2004
2	03	6	2004
3	04	5	2004
4	05	6	2004

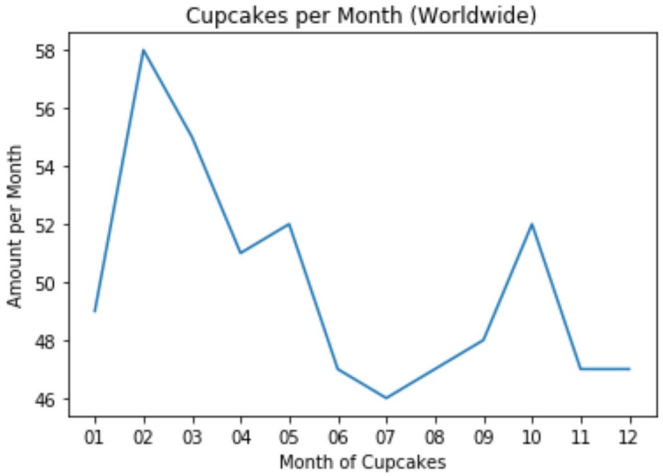
In [12]:
```
is_cupcakes_2018 = cupcakes['Year'] == '2018'
cupcakes_2018 = cupcakes[is_cupcakes_2018]
```

```
    Month  Cupcake: (Worldwide)  Year
168    01                    49  2018
169    02                    58  2018
170    03                    55  2018
171    04                    51  2018
172    05                    52  2018
173    06                    47  2018
174    07                    46  2018
175    08                    47  2018
176    09                    48  2018
177    10                    52  2018
178    11                    47  2018
179    12                    47  2018
```

In [15]:
```
# Bar Chart
plt.bar(cupcakes_2018.Month,cupcakes_2018['Cupcake: (Worldwide)'], align='center',
plt.xlabel('Month of Cupcakes')
plt.ylabel('Amount per Month')
plt.title('Cupcakes per Month (Worldwide)')
```



In [16]:
```
# Line Chart
plt.plot(cupcakes_2018.Month, cupcakes_2018['Cupcake: (Worldwide)'])
plt.xlabel("Month of Cupcakes")
plt.ylabel("Amount per Month")
plt.title("Cupcakes per Month (Worldwide)")
```



In [17]:

```
# Scatter Chart
plt.scatter(cupcakes_2018.Month, cupcakes_2018['Cupcake: (Worldwide)'])
plt.xlabel("Month of Cupcakes")
plt.ylabel("Amount per Month")
plt.title("Cupcakes per Month (Worldwide)")
```