In [4]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [6]:
```
data = pd.read_excel("/Users/user/Downloads/Apocolypse Food.xlsx")
```

In [8]:
```
print(data)
```

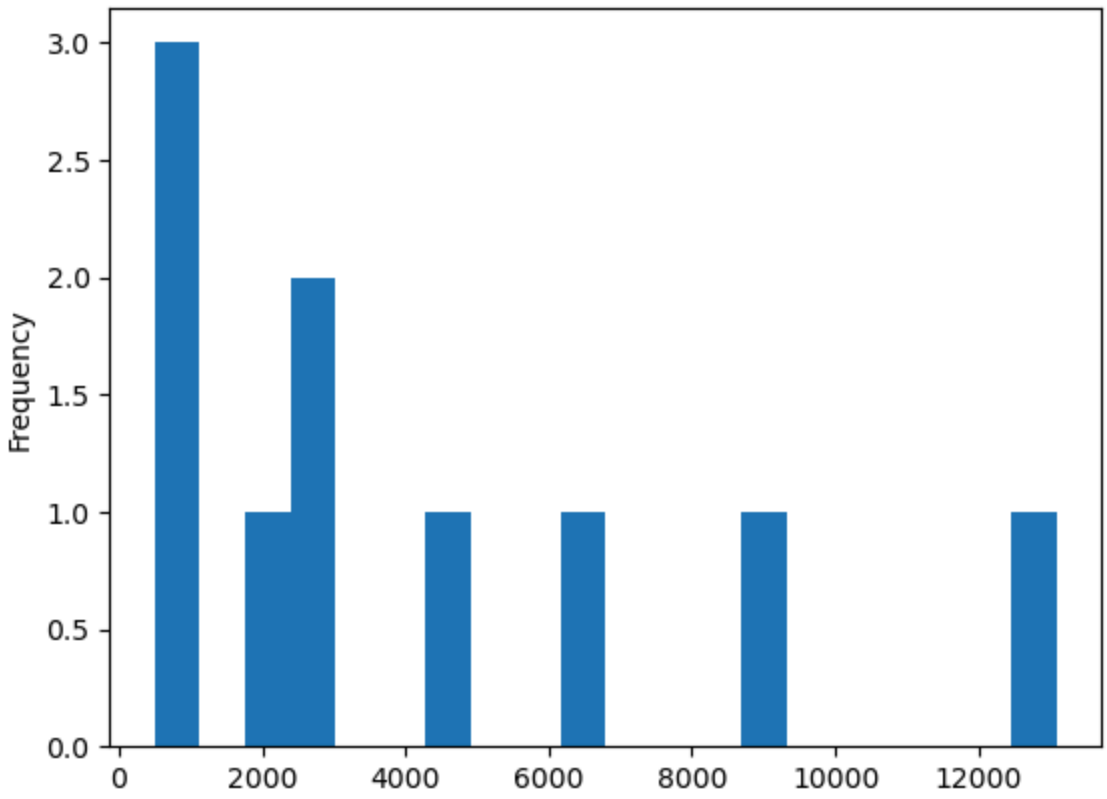
```
     Product Name  Price   Cost   Revenue  Month
0      Nylon Rope  30.99  13.67   6754.80    Jan
1     Waterproof    7.99   2.89    969.00    Feb
2           boots  45.50  32.45   4567.50  March
3        Backpack  39.99  26.92   2770.84  April
4           Knife  28.99  10.58   8781.57    May
5  Solar Battery   26.49  13.41   2380.56   June
6         Jacket  79.99  30.59  13091.00   July
7      Duct Tape   6.25   4.87    503.70    Aug
8  Water Purifier  30.25  17.93   2796.64    Sep
9       N95 Mask   2.75   1.01    596.82    Oct
```

In [10]:
```
print(data.columns)
```

```
Index(['Product Name', 'Price', ' Cost', 'Revenue', 'Month'], dtype='object')
```

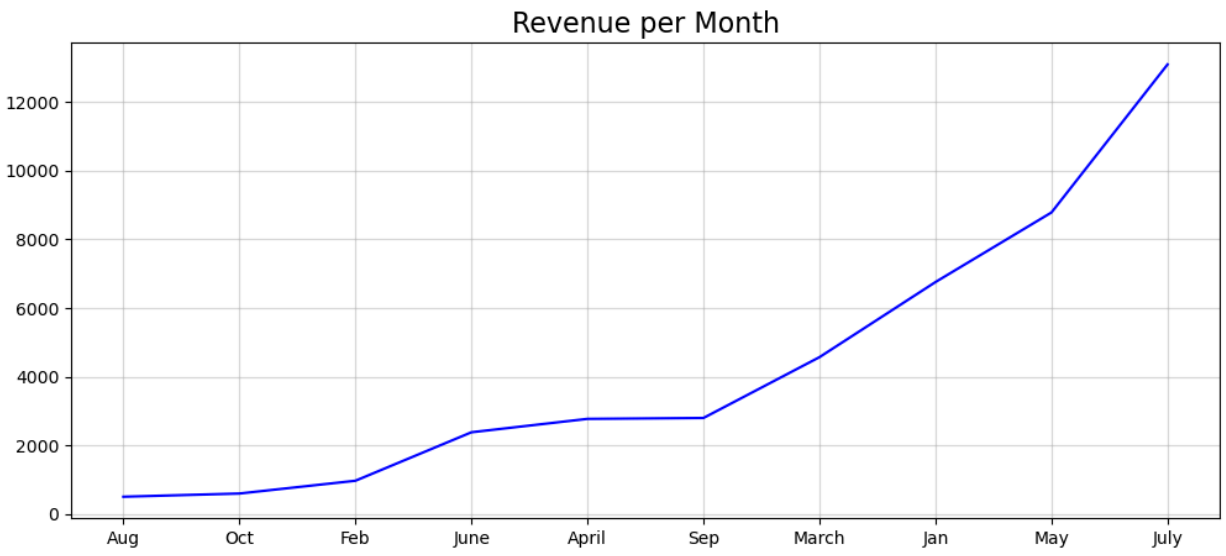
In [37]:
```
data['Revenue'].plot(kind='hist', bins =20)
```

Out[37]:
```
<Axes: ylabel='Frequency'>
```



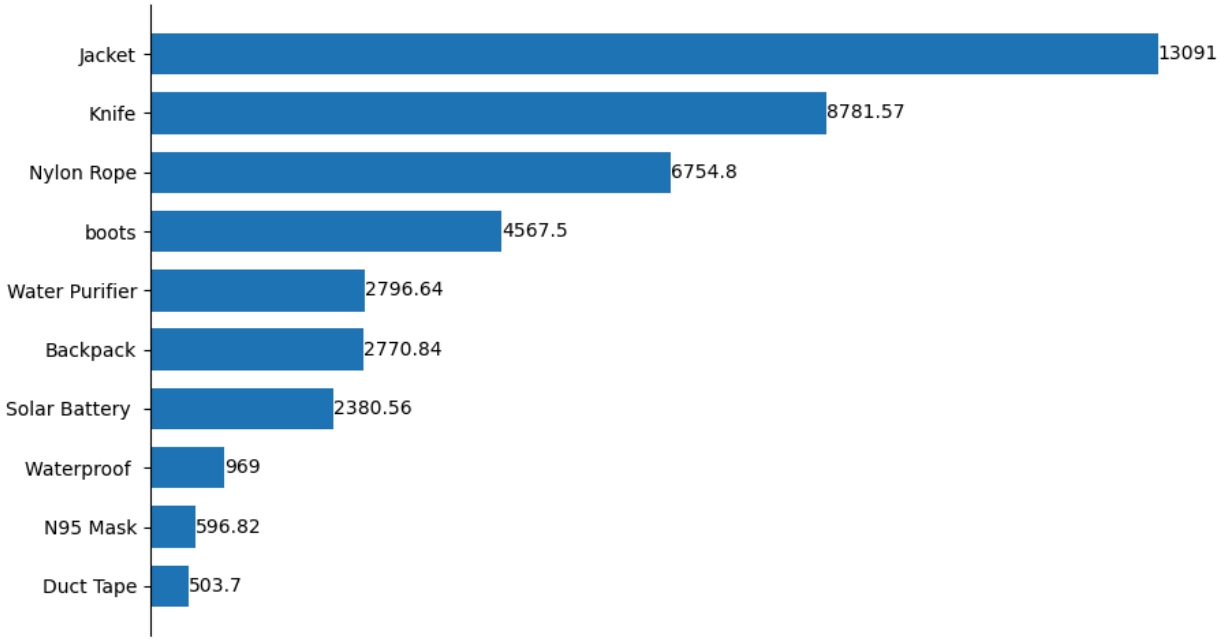
In [55]:
```
plt.figure(figsize=(12, 5))
plt.grid(alpha=0.5)
```

```
plt.plot(data['Month'], data['Revenue'], color="blue")
plt.title('Revenue per Month', fontsize=16)
plt.show()
```



In [103…

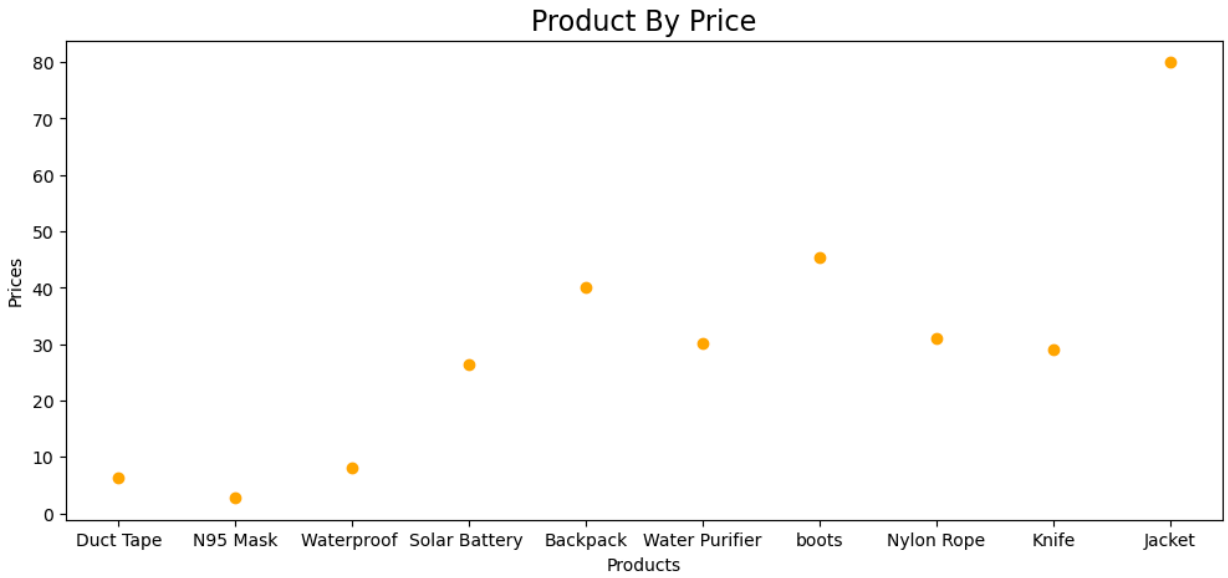
```
fig, ax = plt.subplots(figsize=(10, 6) )
bars = plt.barh(data['Product Name'], data['Revenue'], height=0.7)
data = data.sort_values(by='Revenue')
ax.spines[['right','top','bottom']].set_visible(False)
ax.xaxis.set_visible(False)
ax.bar_label(bars)

plt.show()
```



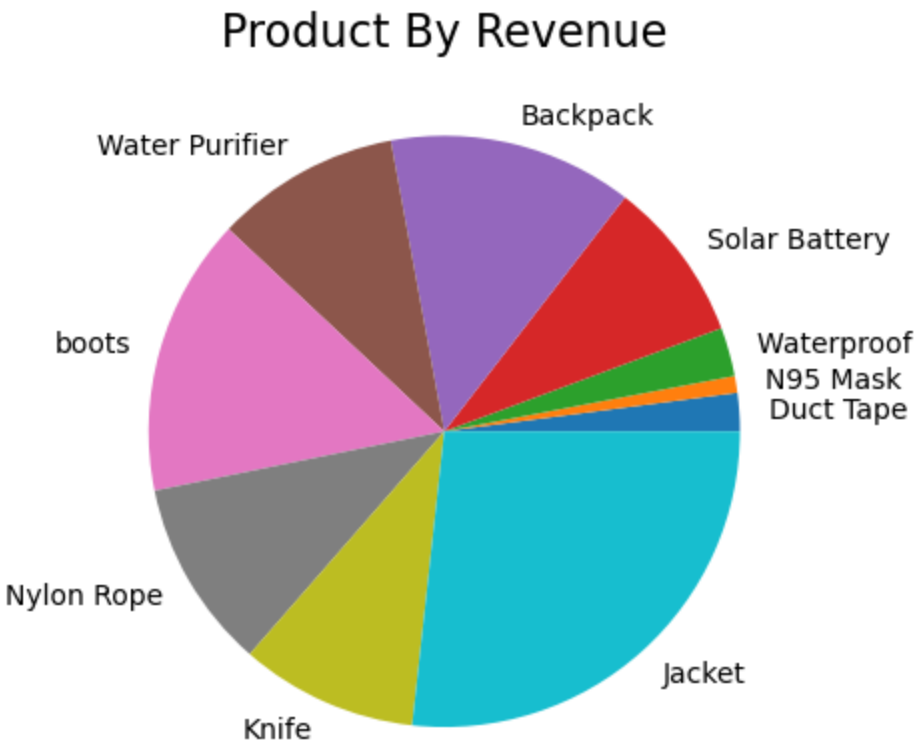
In [89]:

```
x_label = data['Product Name']
y_label = data['Price']
fig = plt.figure(figsize = (12, 5))
plt.scatter(x_label, y_label, color ='orange')
plt.xlabel("Products")
plt.ylabel("Prices")
```

```
plt.title('Product By Price', fontsize=16)
plt.show()
```



In [91]:
```
plt.pie(data['Price'],labels=data['Product Name'])
plt.title('Product By Revenue', fontsize=16)
plt.show()
```



In [93]:
```
x_axis = data['Product Name']
y_axis = data['Revenue']
fig, ax = plt.subplots(figsize=(12,5))
ax.plot(x_axis, y_axis, label="Monthly revenue")
ax.set_xlabel("Product")
ax.set_ylabel("Revenue($)")
ax.set_title("Revenue by Product")
```

```
ax.legend()
plt.show()
```