In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

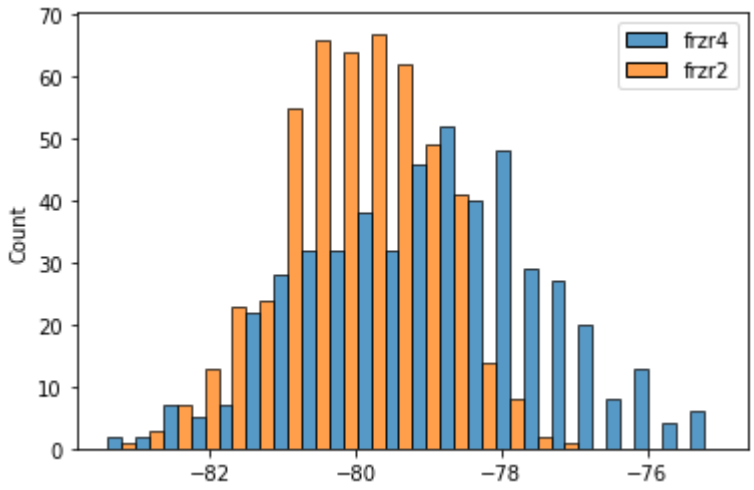
In [2]:
```
myDataFromFile = pd.read_csv("datasets/006ExerciseFile.csv")
display(myDataFromFile)
```

| | frzr4 | frzr2 |
|---|---|---|
| **0** | -78.921478 | -81.919121 |
| **1** | -79.073391 | -80.711522 |
| **2** | -78.384396 | -80.614746 |
| **3** | -80.136295 | -79.818321 |
| **4** | -81.665934 | -81.058738 |
| **...** | ... | ... |
| **495** | -78.563320 | -79.710078 |
| **496** | -80.250203 | -79.792869 |
| **497** | -79.145973 | -81.040803 |
| **498** | -76.098627 | -80.775510 |
| **499** | -80.548183 | -80.393269 |

500 rows × 2 columns

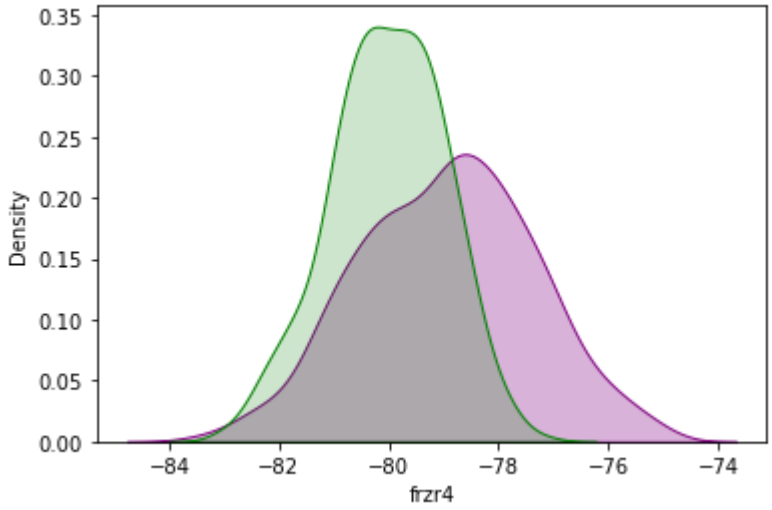
In [7]:
```
sns.histplot(myDataFromFile, multiple="dodge")
```

Out[7]: <AxesSubplot:ylabel='Count'>



In [23]:
```
sns.kdeplot(myDataFromFile["frzr4"], color="purple", fill=True, alpha=0.3)
sns.kdeplot(myDataFromFile["frzr2"], color="green", fill=True, alpha=0.2)
```

Out[23]: <AxesSubplot:xlabel='frzr4', ylabel='Density'>




In [24]:
```
myExerciseSummary = myDataFromFile.describe()
print(myExerciseSummary)
```

```
             frzr4       frzr2
count  500.000000  500.000000
mean   -78.950004  -80.042102
std      1.590001    1.052367
min    -83.397327  -83.105795
25%    -80.073219  -80.757600
50%    -78.861037  -80.010948
75%    -77.841418  -79.284328
max    -75.047915  -77.134292
```

In [25]:
```
myExerciseSummary.to_csv("myExercise006Summary.csv")
```

In [26]:
```
myE6S = pd.read_csv("myExercise006Summary.csv")
display(myE6S)
```

| | Unnamed: 0 | frzr4 | frzr2 |
|---|---|---|---|
| **0** | count | 500.000000 | 500.000000 |
| **1** | mean | -78.950004 | -80.042102 |
| **2** | std | 1.590001 | 1.052367 |
| **3** | min | -83.397327 | -83.105795 |
| **4** | 25% | -80.073219 | -80.757600 |
| **5** | 50% | -78.861037 | -80.010948 |
| **6** | 75% | -77.841418 | -79.284328 |
| **7** | max | -75.047915 | -77.134292 |

In [1]:
```
print("Based on the data, it appears that freezer 2 is functioning normally w
```

```
Based on the data, it appears that freezer 2 is functioning normally while
freezer 4 does not regularly meet the proper temperature of minus 80
```

In [ ]:
```

```