

```
from google.colab import files
data_to_load = files.upload()
```

Choose Files raw_handgrip_data.csv

- **raw_handgrip_data.csv**(text/csv) - 221 bytes, last modified: 2/27/2023 - 100% done

Saving raw_handgrip_data.csv to raw_handgrip_data (2).csv

```
import io
import pandas as pd
from scipy import stats
df = pd.read_csv(io.BytesIO(data_to_load['raw_handgrip_data.csv']))
```

```
df.head()
```

	Height	Weight	Age	Grip_strength	Frailty
0	65.8	112	30	30	N
1	71.5	136	19	31	N
2	69.4	153	45	29	N
3	68.2	142	22	28	Y
4	67.8	144	29	24	Y

```
Clean_handgrip_data = df.dropna()
```

```
# Print the modified dataframe
print(Clean_handgrip_data)
```

	Height	Weight	Age	Grip_strength	Frailty
0	65.8	112	30	30	N
1	71.5	136	19	31	N
2	69.4	153	45	29	N
3	68.2	142	22	28	Y
4	67.8	144	29	24	Y
5	68.7	123	50	26	N
6	69.8	141	51	22	Y
7	70.1	136	23	20	Y
8	67.9	112	17	19	N
9	66.8	120	39	31	N

```
Clean_handgrip_data.to_csv('Clean_handgrip_data.csv', index=False)
```

```
# Separate the data into two groups based on Frailty and grip strength
group1 = Clean_handgrip_data[Clean_handgrip_data['Frailty'] == 'N']['Grip_strength']
group2 = Clean_handgrip_data[Clean_handgrip_data['Frailty'] == 'Y']['Grip_strength']
```

```
# Perform the two-sample t-test
t_statistic, p_value = stats.ttest_ind(group1, group2, equal_var=False)
```

```
# Print the results
print('T-statistic:', t_statistic)
print('P-value:', p_value)
```

```
T-statistic: 1.6349999934600006
P-value: 0.1415730416628566
```