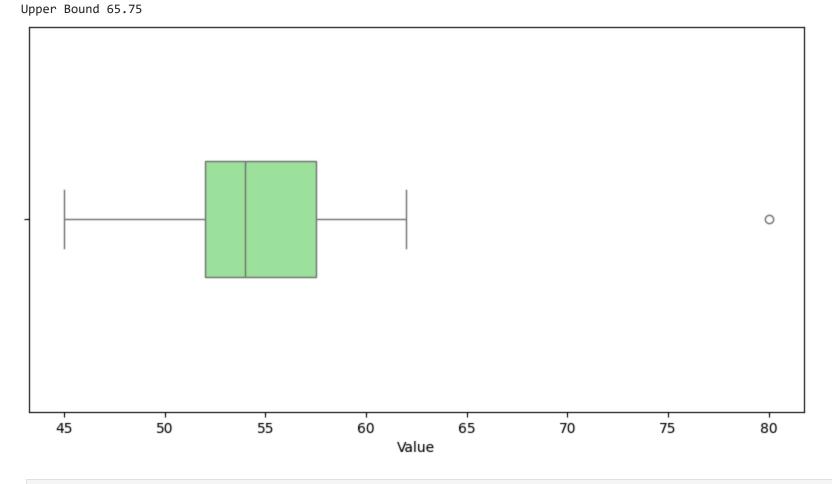
```
In [2]: import numpy as np
 import pandas as pd
 import matplotlib.pyplot as plt
 import seaborn as sns
 data=[45,47,52,52,53,55,56,58,62,80]
 Q1=np.percentile(data,25)
 Q2=np.percentile(data,50)
 Q3=np.percentile(data,75)
 middle_50=[x for x in data if Q1<=x<=Q3]
 IQR=Q3-Q1
 print(Q1,Q2,Q3)
 print("middle 50 values", middle_50)
 print("interquartile range",IQR)
 lower_bound=Q1-1.5*IQR
 upper_bound=Q3+1.5*IQR
 outliers=[x for x in data if x<lower_bound or x>upper_bound]
 print(lower_bound)
 print(outliers)
 print("Upper Bound",upper_bound)
 plt.figure(figsize=(10,5))
 sns.boxplot(x=data,color='lightgreen',width=0.3)
 plt.xlabel('Value')
 plt.show()
52.0 54.0 57.5
middle 50 values [52, 52, 53, 55, 56]
interquartile range 5.5
43.75
```



In [ ]:

[80]