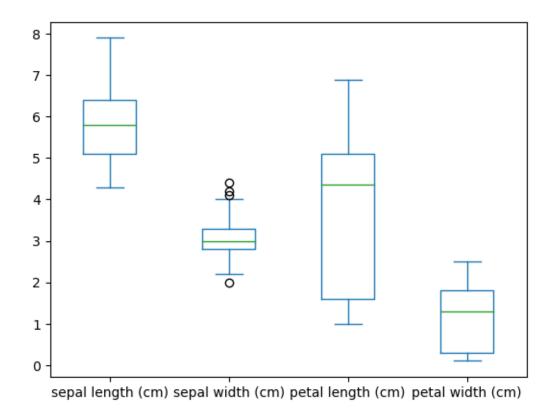
Practical 37

Write a python program to create applied visualization for EDA using boxplots and perform t-tests.

```
1
        True
2
        True
3
        True
4
        True
145
       False
146
       False
147
       False
148
       False
149
       False
Name: Alien, Length: 150, dtype: bool
```



P-value: 5.404910513441677e-62

[5]: mean = np.mean(ages)
mean

30

[5]: 46.7666666666666

```
[6]: sample_size=10
age_sample=np.random.choice(ages,sample_size)
age_sample
```

```
[6]: array([70, 12, 19, 24, 84, 19, 57, 52, 59, 10])
```

```
[7]: from scipy.stats import ttest_1samp ttest,p_value=ttest_1samp(age_sample,30) print(p_value)
```

0.24203093538542797

```
[9]: if p_value < 0.05: # alpha value is 0.05 or 5%
    print(" we are rejecting null hypothesis")
else:
    print("we are accepting null hypothesis")</pre>
```

we are accepting null hypothesis