

```
In [2]:
# 연습문제 8, p43
import stemgraphic
```

```
time = [5.9, 5.3, 1.6, 7.4, 9.8, 1.7, 8.9, 1.2, 2.1, 4.0, 6.5, 7.2, 7.3, 8.4, 8.9, 6.7, 9.2, 2.8, 4.5, 6.3, 7.6, 9.7, 9.4, 8.8, 3.5, 1.1, 4.3, 3.3, 3.1, 1.3]
```

```
stemgraphic.stem_graphic(time, scale=1)
```

```
Out[2]:
(<Figure size 750x300 with 1 Axes>, <Axes: >)
```



```
In [3]:
# 연습문제 8.1, p43
from statistics import *
```

```
time = [5.9, 5.3, 1.6, 7.4, 9.8, 1.7, 8.9, 1.2, 2.1, 4.0, 6.5, 7.2, 7.3, 8.4, 8.9, 6.7, 9.2, 2.8, 4.5, 6.3, 7.6, 9.7, 9.4, 8.8, 3.5, 1.1, 4.3, 3.3, 3.1, 1.3]
```

```
print("평균: ", mean(time))
print("중위수(중앙값): ", median(time))
print("최빈수(최빈값): ", mode(time))
```

```
평균: 5.523809523809524
중위수(중앙값): 6.1
최빈수(최빈값): 1.6
```

```
In [14]:
# 연습문제 8.2, p43
from statistics import *
```

```
time = [5.9, 5.3, 1.6, 7.4, 9.8, 1.7, 8.9, 1.2, 2.1, 4.0, 6.5, 7.2, 7.3, 8.4, 8.9, 6.7, 9.2, 2.8, 4.5, 6.3, 7.6, 9.7, 9.4, 8.8, 3.5, 1.1, 4.3, 3.3, 3.1, 1.3]
```

```
print("범위: ", max(time) - min(time))
print("표준편차: ", stdev(time))
```

```
범위: 8.700000000000001
표준편차: 2.863036893844863
```

```
In [19]:
```

연습문제 8.3, p43

import matplotlib.pyplot as plt

import numpy as np

time = [5.9, 5.3, 1.6, 7.4, 9.8, 1.7, 8.9, 1.2, 2.1, 4.0, 6.5, 7.2, 7.3, 8.4, 8.9, 6.7, 9.2, 2.8, 4.5, 6.3, 7.6, 9.7, 9.4, 8.8, 3.5, 1.1, 4.3, 3.3, 3.1, 1.3]

plt.style.use('default')

플롯 스타일 설정

plt.rcParams['font.size'] = 12

폰트 사이즈 지정

fig, ax = plt.subplots()

서브플롯 할당

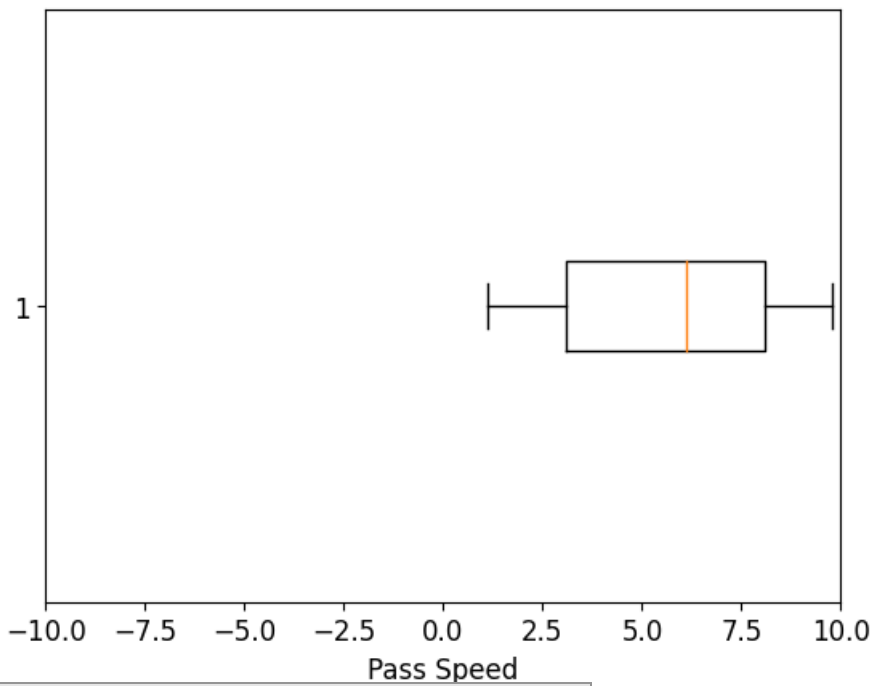
ax.boxplot([time], notch=False, whis=2, vert=False)

박스플롯 생성

ax.set_xlim(-10.0, 10.0)

ax.set_xlabel('Pass Time')

plt.show()



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