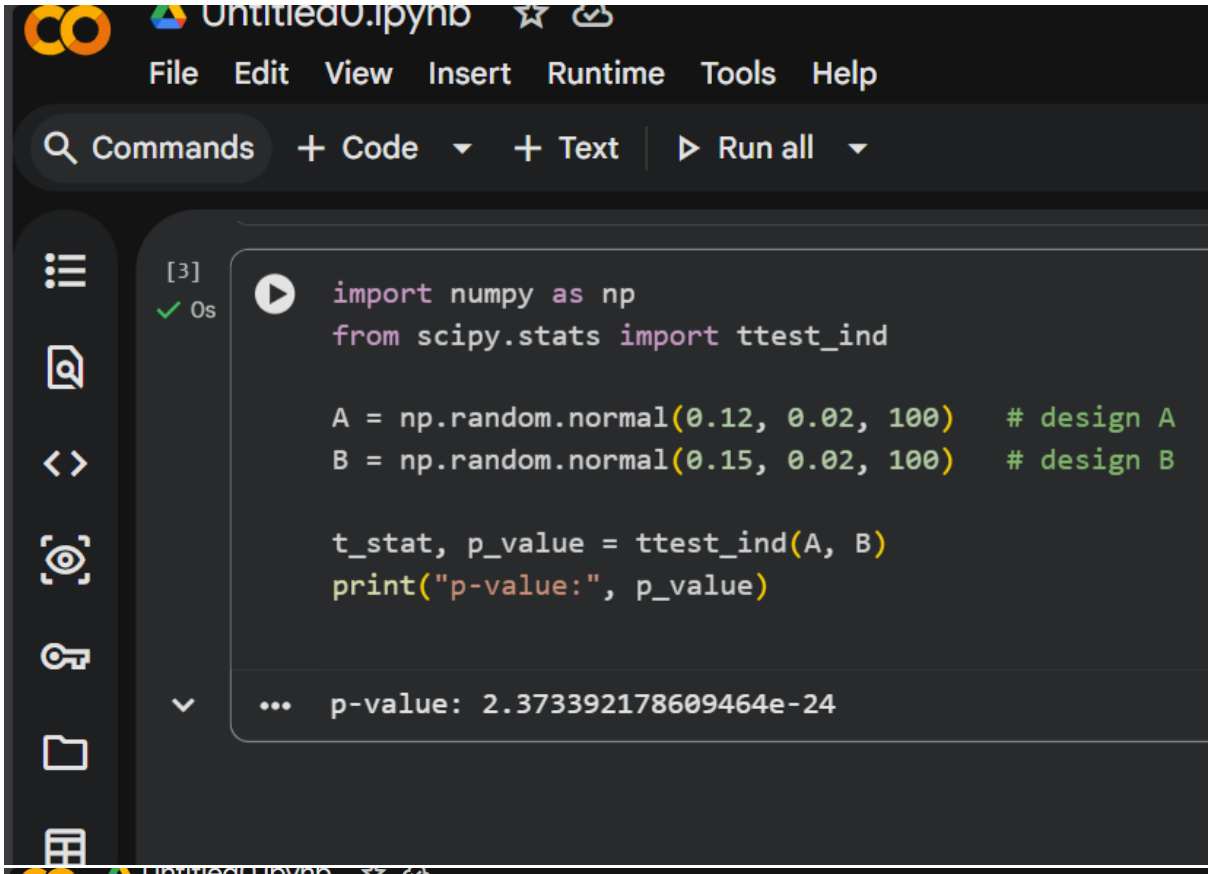
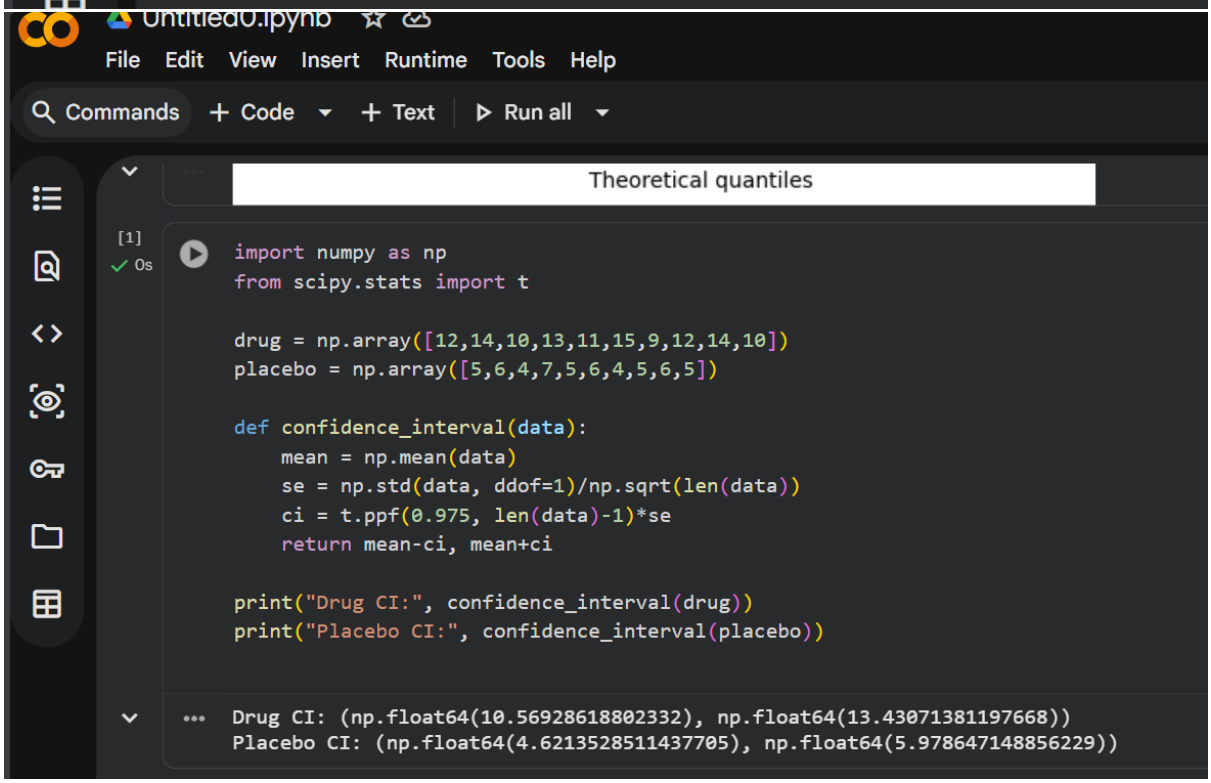
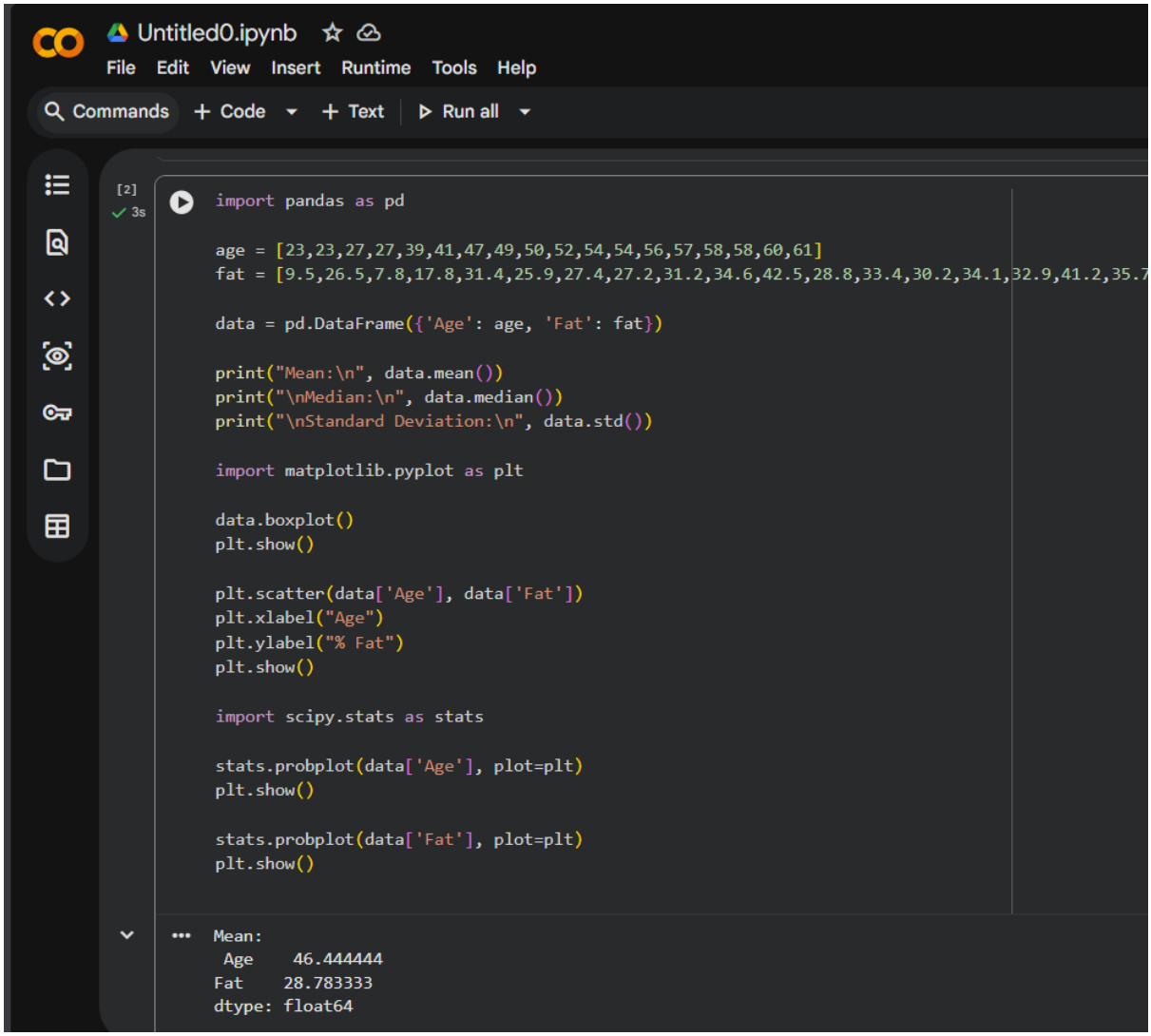
DAY 5

[09.02.2026]

EXP – 16 to 2






Untitled0.ipynb
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Commands + Code + Text Run all
[2]
3s
import pandas as pd
age = [23,23,27,27,39,41,47,49,50,52,54,54,56,57,58,58,60,61]
fat = [9.5,26.5,7.8,17.8,31.4,25.9,27.4,27.2,31.2,34.6,42.5,28.8,33.4,30.2,34.1,32.9,41.2,35.7
data = pd.DataFrame({'Age': age, 'Fat': fat})
print("Mean:\n", data.mean())
print("\nMedian:\n", data.median())
print("\nStandard Deviation:\n", data.std())
import matplotlib.pyplot as plt
data.boxplot()
plt.show()
plt.scatter(data['Age'], data['Fat'])
plt.xlabel("Age")
plt.ylabel("% Fat")
plt.show()
import scipy.stats as stats
stats.probplot(data['Age'], plot=plt)
plt.show()
stats.probplot(data['Fat'], plot=plt)
plt.show()
Mean:
Age 46.444444
Fat 28.783333
dtype: float64

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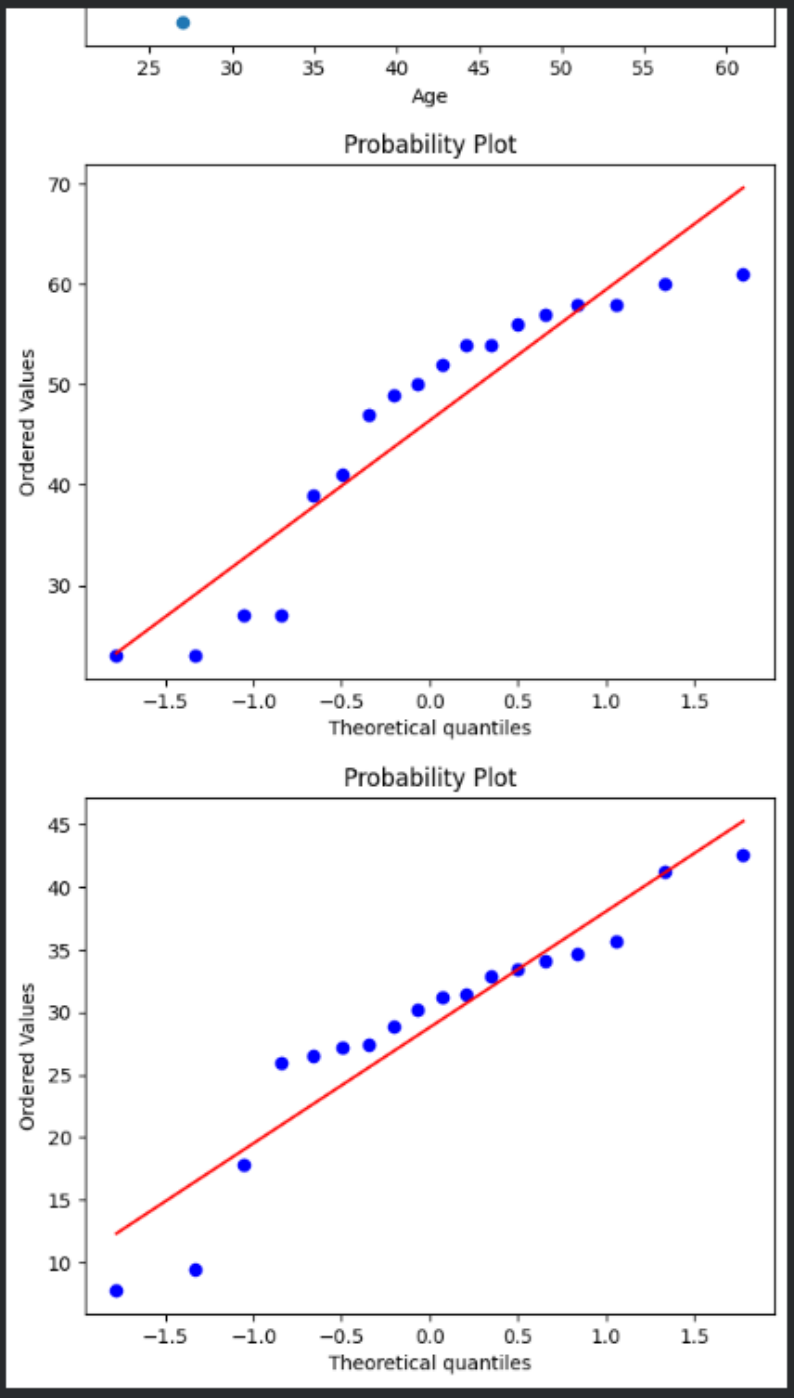

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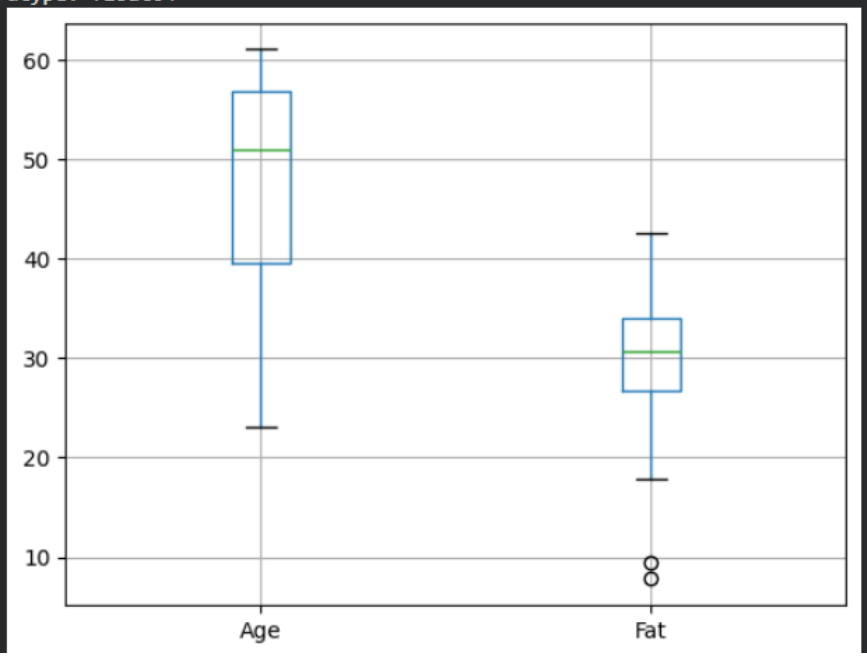
[2] ✓ 3s

```
stats.probplot(data['Fat'], plot=plt)
plt.show()
```

```
Median:
 Age    51.0
Fat    30.7
dtype: float64

Standard Deviation:
 Age    13.218624
Fat     9.254395
dtype: float64
```

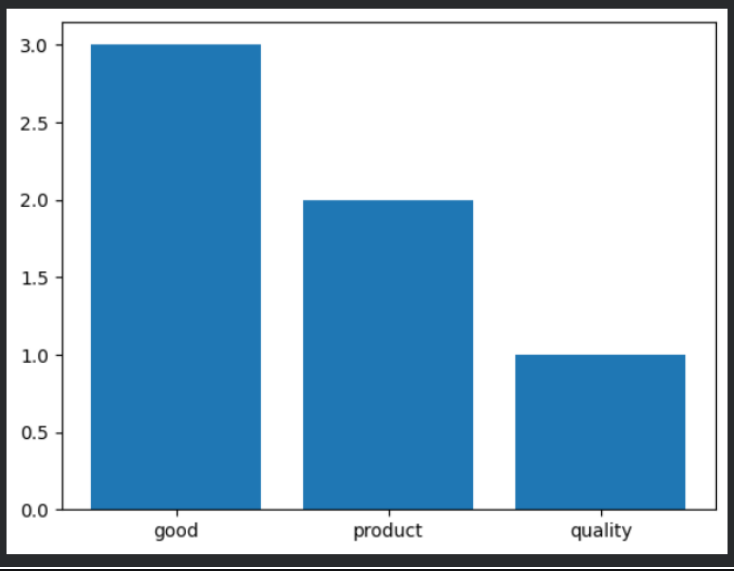


[1]
✓ 1s

```
from collections import Counter
import matplotlib.pyplot as plt

text = "good product and good quality product is good"
words = [w for w in text.lower().split() if w not in ['and','is']]
freq = Counter(words)

plt.bar(freq.keys(), freq.values())
plt.show()
```



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```
30    1
Name: count, dtype: int64
```

[11]
✓ 0s

```
from collections import Counter

reviews = ["Good product", "Very good quality", "Product is good"]
words = " ".join(reviews).lower().split()
freq = Counter(words)
print(freq)
```

```
Counter({'good': 3, 'product': 2, 'very': 1, 'quality': 1, 'is': 1})
```