

 **Topic 13: Python None**

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**◆ Definition**

**None** is a special constant in Python representing the absence of a value.

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**◆ Example + Output**

```
x = None  
if x is None:  
    print("x has no value")
```

**Output:**

```
x has no value
```

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**◆ Challenges**

**Solved Challenge 1:** Check if variable is None

```
y = None  
print(y is None) # True
```

**Solved Challenge 2:** Function that returns None

```
def do_nothing():  
    pass  
  
print(do_nothing()) # None
```

**Your 18 Challenges:**

1. Assign None to a variable.
2. Compare variable with None.
3. Check if list element is None.
4. Function returns None by default.

5. Set default parameter to None.
6. Check None in dictionary values.
7. Replace None in list with 0.
8. Count None values in list.
9. Return None from function if input < 0.
10. Use None in if condition.
11. Create optional argument with None.
12. Assign None to object property.
13. Check None in tuple.
14. Use None in while loop condition.
15. Use None as sentinel value.
16. Remove None from list.
17. Check None in set.
18. Return None from try/except function.