CSC108 FSG

Wed. 2-3pm MN2260
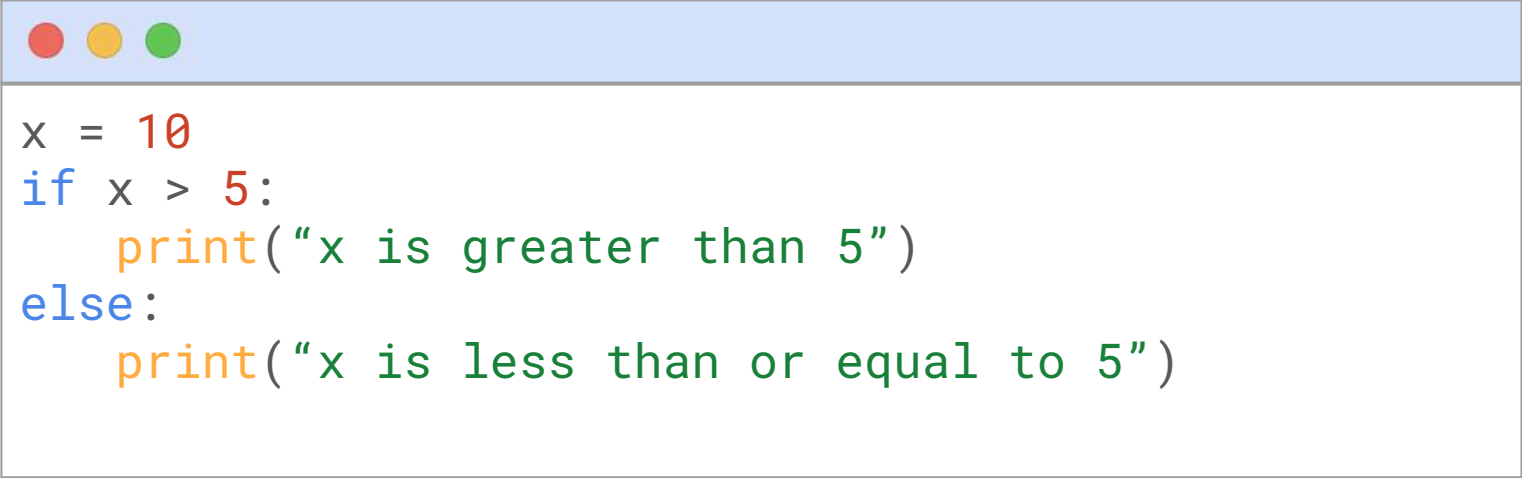
Intro & Ice Breaker

Introduce yourself to others…

- ❏ Name
- ❏ One fun fact about yourself
- ❏ What you want to get out of the FSGs
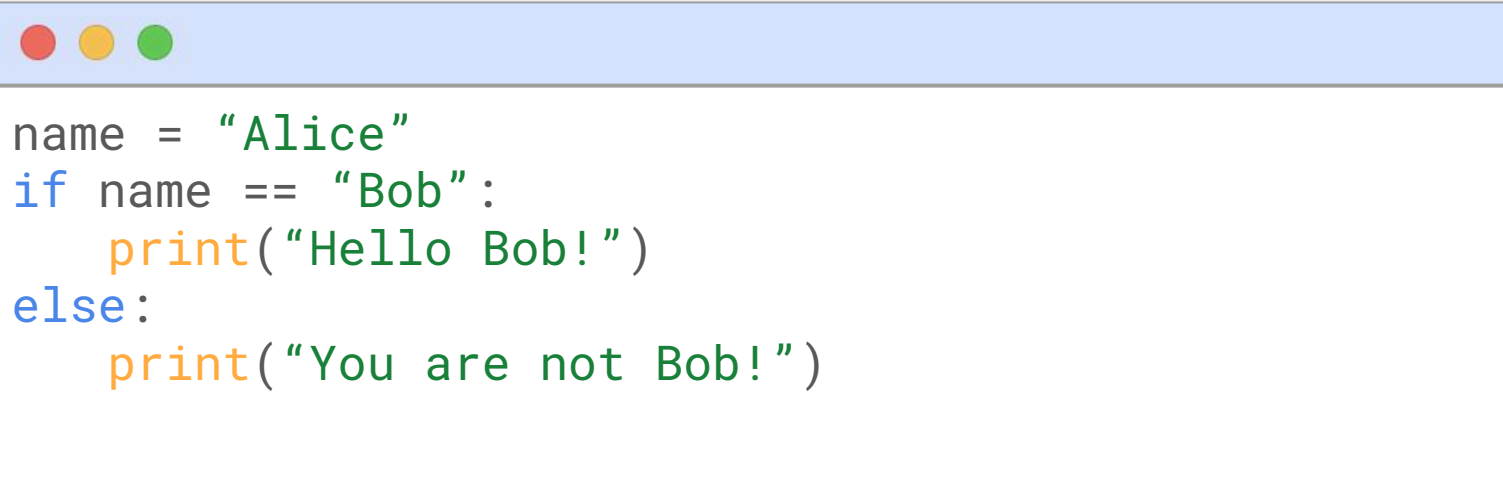
Activity 1-If/Else Statements

```python
x = 10
if x > 5:
    print("x is greater than 5")
else:
    print("x is less than or equal to 5")
```

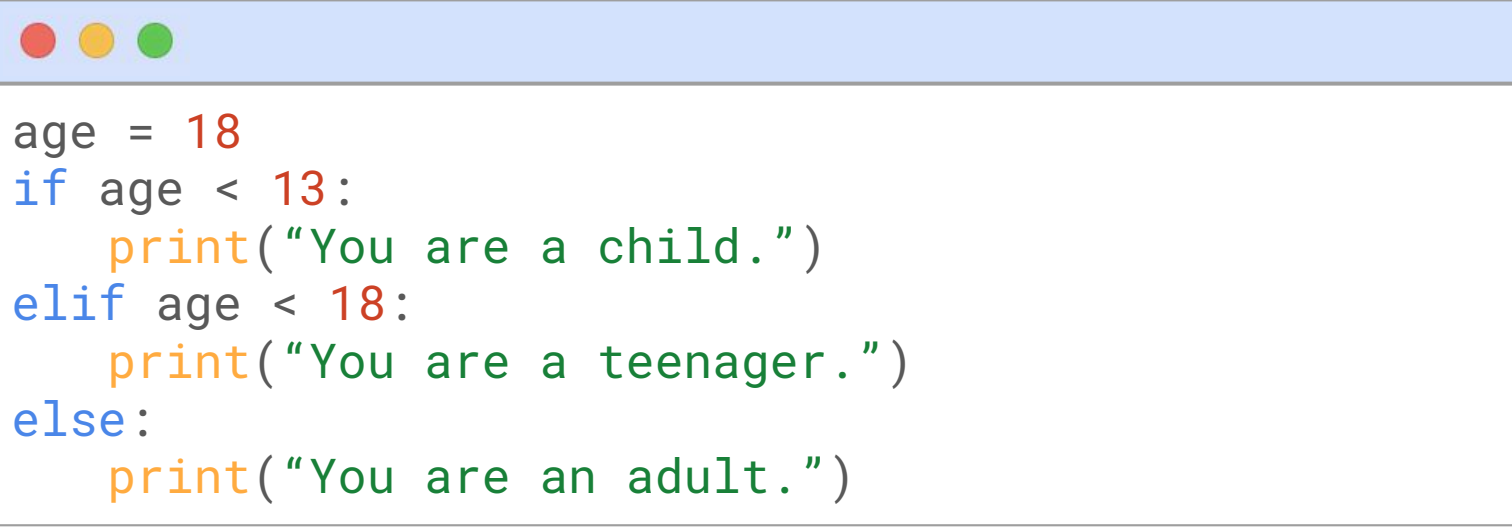**Question** : What will be the output when x = 5? What about when x = 3?

Activity 1 - If/Else Statements

```python
name = "Alice"
if name == "Bob":
    print("Hello Bob!")
else:
    print("You are not Bob!")
```

Question : What will be the output when name = "Bob" ?
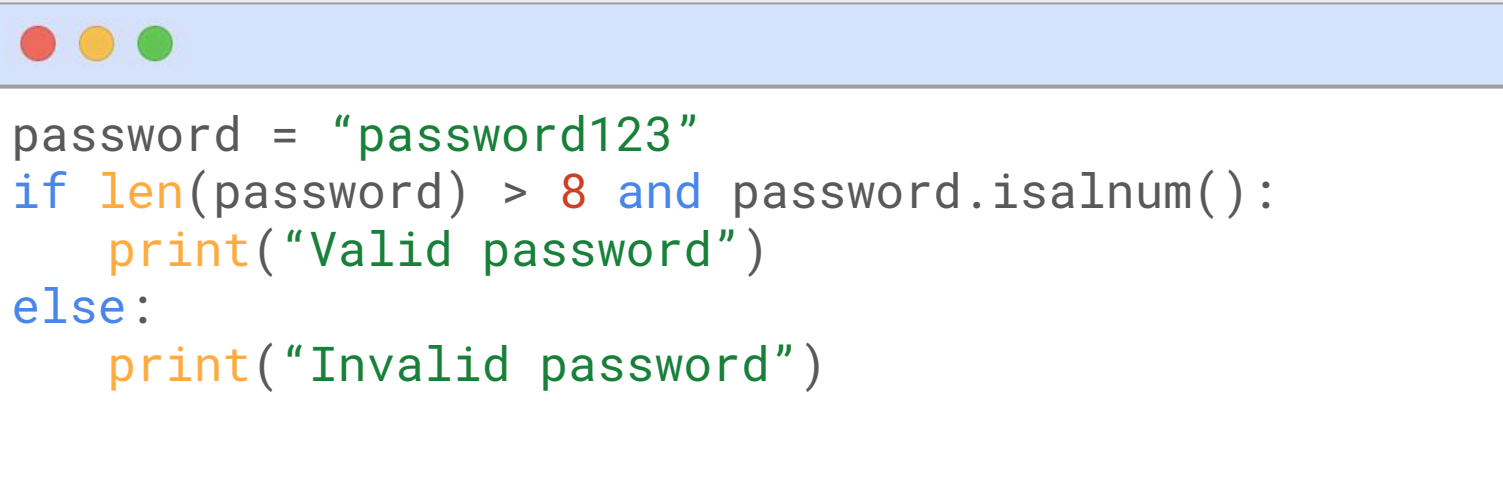
Activity 1 - If/Else Statements

```python
age = 18
if age < 13:
    print("You are a child.")
elif age < 18:
    print("You are a teenager.")
else:
    print("You are an adult.")
```

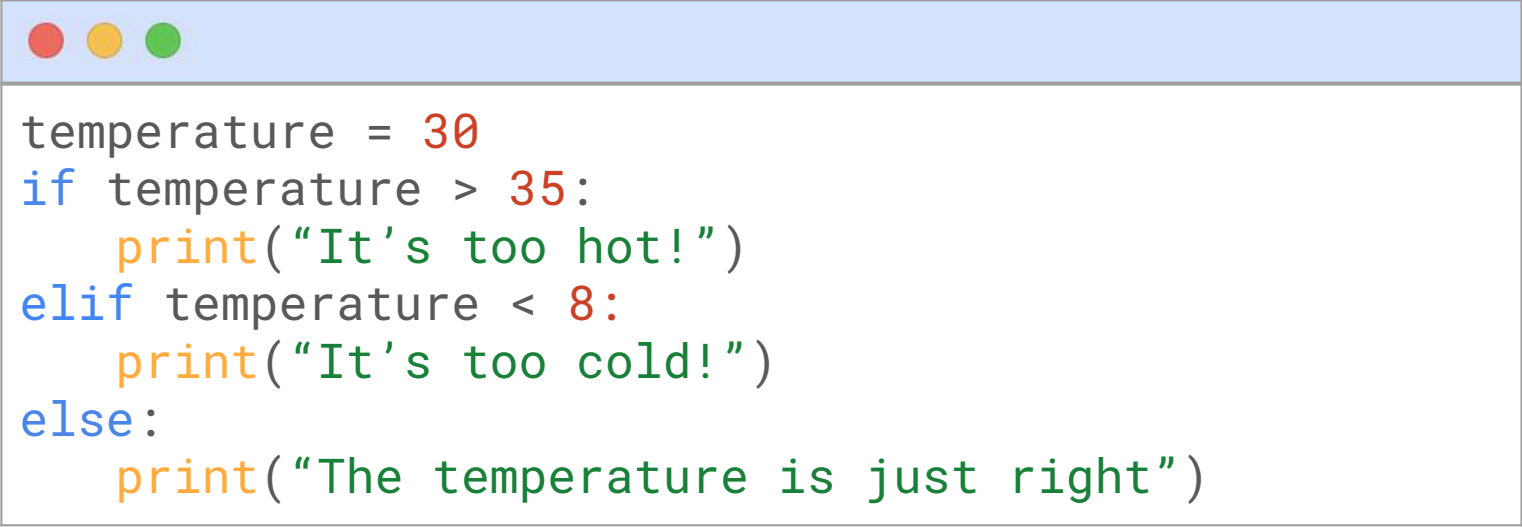**Question** : What will be the output when age = 12? What about age = 15?

Activity 1-If/Else Statements

```python
password = "password123"
if len(password) > 8 and password.isalnum():
    print("Valid password")
else:
    print("Invalid password")
```

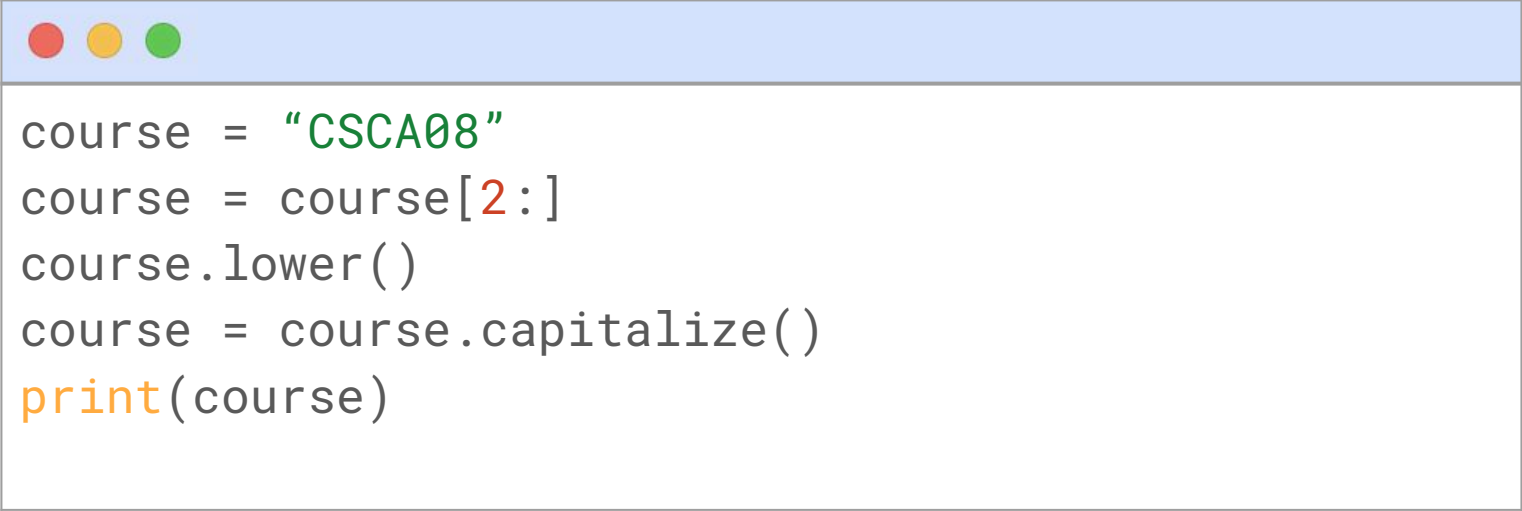**Question** : What input will result in different output?

Activity 1 - If/Else Statements

```python
temperature = 30
if temperature > 35:
    print("It's too hot!")
elif temperature < 8:
    print("It's too cold!")
else:
    print("The temperature is just right")
```
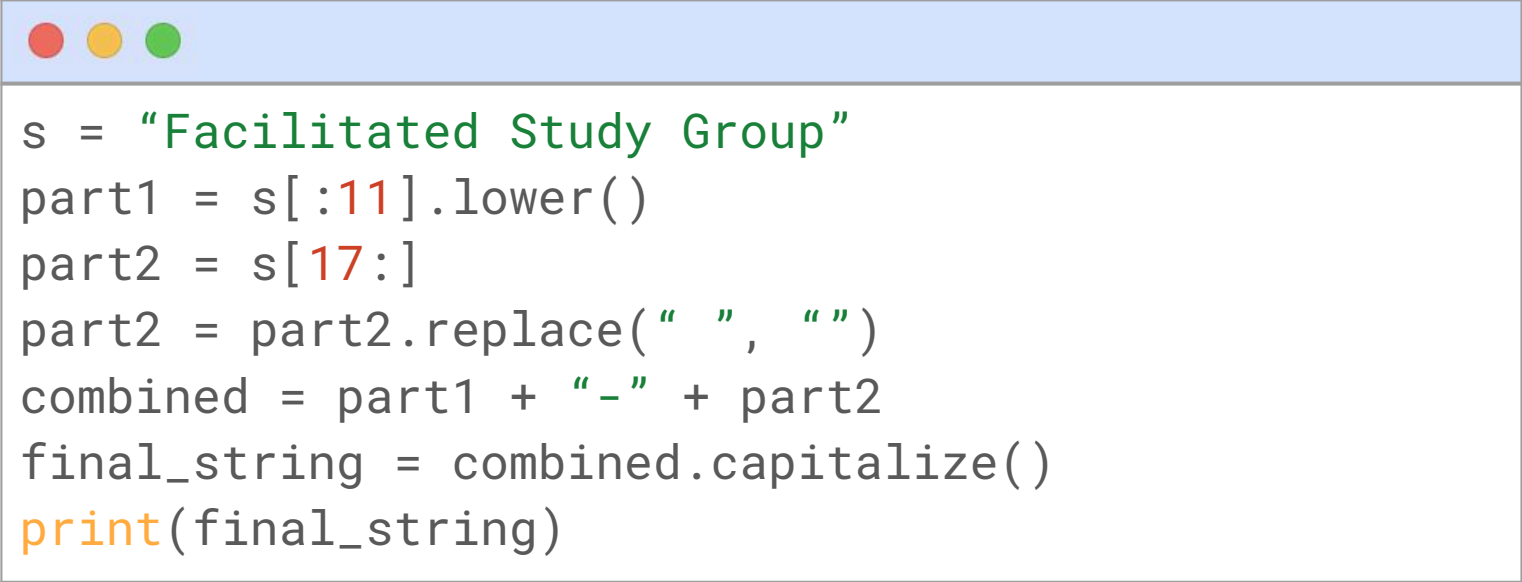
Question : What input range will execute the else block?(ex. [8, 10])
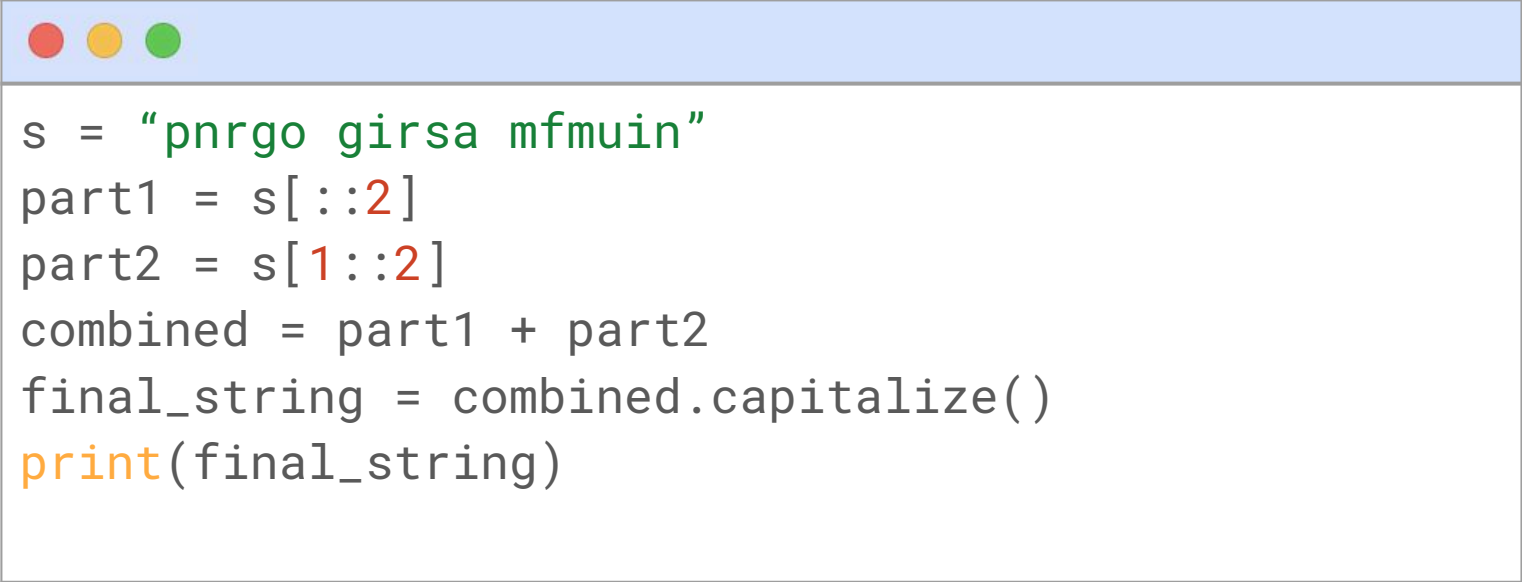
Activity 2 - String Slicing & Methods

```python
course = "CSCA08"
course = course[2:]
course.lower()
course = course.capitalize()
print(course)
```

Activity 2 - String Slicing & Methods

```python
s = "Facilitated Study Group"
part1 = s[:11].lower()
part2 = s[17:]
part2 = part2.replace(" ", "")
combined = part1 + "-" + part2
final_string = combined.capitalize()
print(final_string)
```

Activity 2-String Slicing & Methods

```python
s = "pnrgo girsa mfmuin"
part1 = s[::2]
part2 = s[1::2]
combined = part1 + part2
final_string = combined.capitalize()
print(final_string)
```

Activity 3-Creating a Challenge Question

Topics to implement:

- ❏ If/else statements
- ❏ Boolean operators
- ❏ String methods
- ❏ String slicing

Try to make a question that you are not confident in solving. Good luck!

Sample Challenge Question

Write a function that prints the session type of an academic event given the parameters: occurrence (integer), teaching (boolean), and leader(string).

The function should print

- ❏ `"Lecture"`, if the event occurs `3` times a week, teaching is `True`, and the leader is `"professor"`.
- ❏ `"Office Hour"`, if the event occurs `1` time a week, teaching is `True`, and the leader is `"professor"` or `"ta"`.
- ❏ `"Tutorial"`, if the event occurs `1` time a week, teaching is `True`, and the leader is `"ta"`.
- ❏ `"FSG"`, if the event occurs `1` time a week, teaching is `False`, and the leader is `"facilitator"`.

Try to consider what the program should print if none of these conditions are met!

```python
def print_session_type(occurrence: int, teaching: bool, leader: str) -> None:
```