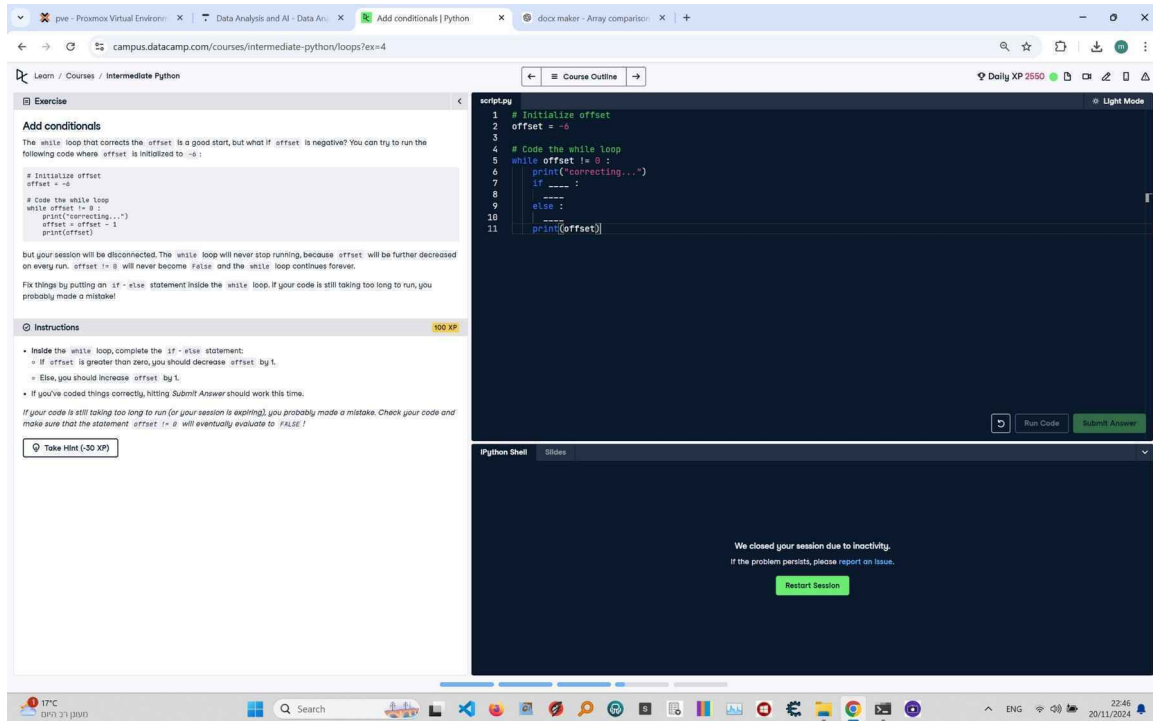


Add Conditionals in While Loop



The screenshot shows a web browser with the URL `campus.datacamp.com/courses/intermediate-python/loops/ex=4`. The page displays an exercise titled "Add conditionals". The exercise text explains that a while loop that corrects the offset is a good start, but what if offset is negative? You can try to run the following code where offset is initialized to -6:

```
# Initialize offset
offset = -6

# Code the while loop
while offset != 0:
    print("correcting...")
    offset = offset - 1
    print(offset)
```

but your session will be disconnected. The while loop will never stop running, because offset will be further decreased on every run. offset != 0 will never become False and the while loop continues forever.

Fix things by putting an if - else statement inside the while loop. If your code is still taking too long to run, you probably made a mistake!

Instructions 100 XP

- Inside the while loop, complete the if - else statement:
 - If offset is greater than zero, you should decrease offset by 1.
 - Else, you should increase offset by 1.
- If you've coded things correctly, hitting Submit Answer should work this time.

If your code is still taking too long to run (or your session is expiring), you probably made a mistake. Check your code and make sure that the statement `offset != 0` will eventually evaluate to `False`!

[Take Hint \(-30 XP\)](#)

The code editor on the right shows the current code with a while loop and a print statement. The instructions section shows the correct code with an if-else statement.

****Question:****

The `while` loop that corrects the `offset` is a good start, but what if `offset` is negative? You can try to run the following code where `offset` is initialized to `-6`:

```
python
offset = -6
while offset != 0:
    print("correcting...")
    offset = offset - 1
    print(offset)
```

But your session will be disconnected. The `while` loop will never stop running, because `offset` will be further decreased on every run. `offset != 0` will never become `False`, and the `while` loop continues forever.

****Instructions:****

Fix things by putting an `if-else` statement inside the `while` loop. Complete the `if-else` statement:

- If `offset` is greater than zero, you should decrease `offset` by 1.

- Else, you should increase `offset` by 1.

If you've coded things correctly, hitting `Submit Answer` should work this time. Make sure that the statement `offset != 0` will eventually evaluate to `False`.

****Answer:****

Here is the Python code that solves the problem:

```
# Initialize offset
offset = -6

# Code the while loop
while offset != 0:
    print("correcting...")
    if offset > 0:
        offset = offset - 1
    else:
        offset = offset + 1
    print(offset)
```

****Explanation:****

1. ****Initialization****: The variable `offset` is initialized to `-6`.
2. ****While loop condition****: The `while` loop runs as long as `offset` is not equal to `0`.
3. ****If-else inside the loop****:
 - If `offset > 0`, the value of `offset` is decreased by `1`.
 - If `offset <= 0`, the value of `offset` is increased by `1`.
4. ****Print statements****: The message `correcting...` is printed during each iteration, followed by the updated value of `offset`.
5. ****Loop termination****: The `offset` value is incremented or decremented during each iteration, eventually reaching `0`. When `offset == 0`, the loop condition `offset != 0` evaluates to `False`, and the loop terminates.