edX

Curso > Week 1... > 2. Core... > Exercis...

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Exercise: while

Finger Exercises due Aug 5, 2020 20:30 -03   *Completo*

Exercise: while exercise 1

5.0/5.0 points (graded)
ESTIMATED TIME TO COMPLETE: 5 minutes

In this problem you'll be given a chance to practice writing some while loops.

1. Convert the following into code that uses a while loop.

print `2`
prints `4`
prints `6`
prints `8`
prints `10`
prints `Goodbye!`

```
1 valor=2
2 while valor<=10:
3     print(valor)
4     valor += 2
5 print('Goodbye!')
```

Press ESC then TAB or click outside of the code editor to exit

Correta

Test results

Hide output

CORRECT

What's printed?

Output:

```
2
4
6
8
10
Goodbye!
```

Hide output

Enviar

Exercise: while exercise 2

5.0/5.0 points (graded)
ESTIMATED TIME TO COMPLETE: 5 minutes

2. Convert the following into code that uses a while loop.

prints ` Hello! `
prints ` 10 `
prints ` 8 `
prints ` 6 `
prints ` 4 `
prints ` 2 `

```
1 valor=10
2 print('Hello!')
```

```
3 while valor >= 2:
4     print(valor)
5     valor -= 2
```

Press ESC then TAB or click outside of the code editor to exit

Correta

Test results

Hide output

CORRECT

What's printed?

Output:

```
Hello!
10
8
6
4
2
```

Hide output

Enviar

Exercise: while exercise 3

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

3. Write a while loop that sums the values 1 through `end`, inclusive. `end` is a variable that we define for you. So, for example, if we define `end` to be 6, your code should print out the result:

```
21
```

which is 1 + 2 + 3 + 4 + 5 + 6.

For problems such as these, do not include `input` statements or define variables we will provide for you. Our automating testing will provide values so write your code in the following box assuming these variables are already defined.

Hint: Don't Use A Variable Called 'sum'

For reasons related to our grader, you cannot call your variable `sum`. Call it anything else, but not `sum`. If you do, you will be marked incorrectly.

This is because `sum` is a Python built-in function for summing a list of numbers – we prevent you from using it because if you did it'd defeat the point of the exercise.

Take it as a lesson – overwriting built-in functions is generally bad practice anyway (you'd not call a variable `print`, or `while` or `elif` - because if you did, how would you use those built-in functions/keywords?). A general rule of thumb is: when writing code in Idle, if a word turns orange or purple, then it is special in Python - it is either a keyword or a built in function. In Canopy, the color is green. Don't give your variables the same name as any of the Python keywords or built in functions.

Here is a list of Python keywords.

Here is a list of Python built-in functions.

You will learn more about functions in the next lecture sequence!

```
1 conta = 1
2 soma = 0
3 while conta <= end:
4     soma += conta
5     conta += 1
6 print(soma)
```

Press ESC then TAB or click outside of the code editor to exit

Correta

```
# Here is one of a few ways to solve this problem:
total = 0
current = 1
while current <= end:
    total += current
    current += 1

print(total)
```

Test results

Hide output

CORRECT

end = 21

Output:

231

end = 25

Output:

325

end = 19

Output:

190

```
end = 16
```

Output:

```
136
```

```
end = 25
```

Output:

```
325
```

Hide output

Enviar

ℹ Answers are displayed within the problem

Exercise: while

Ocultar discussão

Topic: Lecture 2 / Exercise: while

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? **My code Exercise 2 why is it wrong? It showed what was requested.**   1
num=10 print('Hello!') print(num) while num <= 10 and num > 2: num-=2 print(num)

💬 **Error Checking**   2
Partly for fun and partly for good coding practice, in exercise 3 I included an if check to make sure…

💬 **Hi,for Excercise 3.**   2
Though my code is giving me right answer, i have checked it for all vairables mentioned in outpot.…

💬 **Exercise 3 Hint**   2
One way to solve Exercise 3 is illustrated in the video Control Flow at 9 minutes 45 seconds. The i…

💬 **Will this get easier? spoiler**   2
                                                                                               ✎

It took me about 12 hours to figure this out, using trial and error, and carefully going through TA r...

?	**question 3** can some one please elaborate how you broke down the problem and then applied the while loo...	**27**
?	**why my solution is incorrect ?** total=0 while x>0 : total +=x x -=1 print(total)	**4**
💬	**Still processing...** A couple of days ago, I did the exercise 3, but the grader is still processing. Why does it happen? T...	**4**
?	**question 3 blew off my mind**	**3**
?	**Question 3: Using two Variables** Hi, based on what I read from the discussion, I know you need to use two variables for question 3...	**1**
?	**Why I am wrong?** num =0 while num <10: num+=2 sum(num) while num>10 print("Hello!")	**3**
?	**'Processing' of Exercise: while exercise 3** Hi, exercise 3 of 'Exercise: while' has been in 'Processing for the last 2 days. Please resolve it.	**2**
?	**Maybe I'm missing something** while True: ran = sum(range(end)) print(ran + end) break It doesn't feel like the cleanest code, but ...	**2**