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Exercise 4

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

Exercise 4

5/5 points (graded)

ESTIMATED TIME TO COMPLETE: 8 minutes

Below are some short Python programs. For each program, answer the associated question.

Try to answer the questions without running the code. Check your answers, then run the code for the ones you get wrong.

This question is going to ask you what some simple loops print out. If you're asked what code like this prints:

```
num = 5
if num > 2:
    print(num)
    num -= 1
print(num)
```

write what it prints out, separating what appears on a new line by a comma and a space. So the answer for the above code would be:

```
5, 4
```

If a given loop will not terminate, write the phrase 'infinite loop' (no quotes) in the box. Recall that you can stop an infinite loop in your program by typing CTRL+c in the console.

```
Note: What does += , -= , *= , /= stand for?
```

```
a += b is equivalent to a = a + b
a -= b is equivalent to a = a - b
a *= b is equivalent to a = a * b
a /= b is equivalent to a = a / b
  1.
      num = 0
      while num <= 5:
          print(num)
          num += 1
      print("Outside of loop")
      print(num)
      0, 1, 2, 3, 4, 5, Outside of loop, 6
    Answer: 0, 1, 2, 3, 4, 5, 'Outside of loop', 6
  2.
      numberOfLoops = 0
      numberOfApples = 2
      while numberOfLoops < 10:
          numberOfApples *= 2
          numberOfApples += numberOfLoops
          numberOfLoops -= 1
      print("Number of apples: " + str(numberOfApples))
      infinite loop
    Answer: infinite loop
  3.
      num = 10
      while num > 3:
          num -= 1
          print(num)
      9, 8, 7, 6, 5, 4, 3
    Answer: 9, 8, 7, 6, 5, 4, 3
  4.
```

```
num = 10
while True:
    if num < 7:
        print('Breaking out of loop')
        break
    print(num)
    num -= 1
print('Outside of loop')
```

Note: If the command break is executed within a loop, it halts evaluation of the loop at that point and passes control to the next expression. Test some break statements inside different loops if you don't understand this concept!

10, 9, 8, 7, Breaking out of loop, Outside of loop

Answer: 10, 9, 8, 7, 'Breaking out of loop', 'Outside of loop'

```
5.
   num = 100
   while not False:
       if num < 0:
           break
   print('num is: ' + str(num))
```

infinite loop

Answer: infinite loop

Explanation:

For the last exercise, the code never breaks. You enter the loop with <code>num</code> value of 100 and since the value of num never changes, num < 0 is never True so break is never executed. Therefore you are stuck in an infinite loop.

Enviar

1 Answers are displayed within the problem

Exercise 4

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