

Quiz review

Started on	Tuesday, 23 January 2024, 11:52 AM
State	Finished
Completed on	Tuesday, 23 January 2024, 11:55 AM
Time taken	2 mins 41 secs
Marks	5/5
Grade	100 out of 100
Feedback	Congratulations!!! You have passed by securing more than 80%

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Question 1

Correct

Mark 1 out of 1

Predict the right output for the following code.

```
i = 5
while True:
    if i%9 == 0:
        break
    print(i)
    i += 1
```

Select one:

- ☐ 5 6 7 8 9
- ☐ 5 6 7 8 9 10 11 12 13 14 15
- ☐ Error
- ☒ 5 6 7 8 ✓

Your answer is correct.

Here, i is assigned the value 5. Execution of while loop stops when i%9 evaluates to 0. That is, when i is 9. Until then, i is printed and incremented by 1. Hence, 5 6 7 8.

The correct answer is: 5 6 7 8

Question 2

Correct

Mark 1 out of 1

Predict the correct output for the following code.

```
x = "abcdef"
```

```
i = "a"
```

```
while i in x:
```

```
    print('i', end = " ")
```

Select one:

- ☐ no output
- ☒ i i i i i ... ✓
- ☐ a a a a a ...
- ☐ a b c d e f

Your answer is correct.

Since a in abcdef (i.e, i in x) is always true, the character i will get printed infinite no of times in the same line, separated by white spaces since end = " ".

The correct answer is: i i i i i ...

Question 3

Correct

Mark 1 out of 1

Analyse and predict the value of b after the execution of this loop?

b = 0

for a in range(0, 10, 2):

 b += a + 1

Select one:

☐ 36

☐ 20

☒ 25 ✓

☐ 45

Your answer is correct.

Here, a will take values from 0 to 10-1, stepping by 2. Hence, a takes values 0,2,4,6 an 8.

b+=a+1 is equivalent to b=b+a+1.

When a is 0, b=0+0+1=1

When a is 2, b=1+2+1=4

When a is 4, b=4+4+1=9

When a is 6, b=9+6+1=16

When a is 8, b=16+8+1=25

After loop execution, b is 25.

The correct answer is: 25

Question 4

Correct

Mark 1 out of 1

Select the statement that you can use for iterating over a block of statements N times

Select one:

- ☐ while n=0; n=n+1; n<N:
- ☐ while n in xrange(N):
- ☐ for n=0, n=n+1, n<N:
- ☒ for n in range(N): ✓
- ☐ for n=1 to N:

Your answer is correct.

"for n in range(N):" is the only correct syntax for iterating over a block of statements N times.

The correct answer is: for n in range(N):

Question 5

Correct

Mark 1 out of 1

Analyse and select the statements that correctly explain the output of the given sample code.

```
if(True):
```

```
    print("A")
```

```
if(100):
```

```
    print("B")
```

```
if(" "):
```

```
    print("C")
```

```
if ([]):
```

```
    print("D")
```

Select one:

- ☐ User-defined objects can customize their truth value by providing a `__bool__()` method.
- ☒ In the context of Boolean operations, the following values are interpreted as true: ✔
True, numeric non-zero of all types, non-empty strings and containers containing empty containers.
- ☐ The following values are always interpreted as false:
False, None, numeric zero of all types, and empty strings and empty containers.

Your answer is correct.

The correct answer is: In the context of Boolean operations, the following values are interpreted as true:
True, numeric non-zero of all types, non-empty strings and containers containing empty containers.

[◀ Post Quiz - Control Structures](#)[Lists, Tuples and Dictionaries - Video ▶](#)

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