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QUESTIONS

QUESTION 4

5 marks

Find the output of the following program:

Python Code

```
check1 = ['Learn', 'Quiz', 'Practice', 'Contribute']

check2 = check1

check3 = check1[:]

check2[0] = 'Code'

check3[1] = 'Mcq'

count = 0

for c in (check1, check2, check3):

    if c[0] == 'Code':

        count += 1

    if c[1] == 'Mcq':

        count += 10

print(count)
```

- ☐ 4
- ☐ 5
- ☐ 11
- ☒ 12

Your submitted response was correct.

Explanation

When assigning check1 to check2, we create a second reference to the same list. Changes to check2 affect check1. When assigning the slice of all elements in check1 to check3, we are creating a full copy of check1 which can be modified independently (i.e, any change in check3 will not affect check1).

So, while checking check1 'Code' gets matched and the count increases to 1, but Mcq doesn't get matched since its available only in check3.

Now checking check2 here also 'Code' gets matched resulting in a count value to 2.

Finally while checkina check3 which is separate from both check1 and check2 here only Mca aets matched and the count becomes 12.

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