

Assignment - MCQ

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1) c) 15

In the given code, `func(30, 75)` is called, which means the function is first called with arguments $a = 30$ and $b = 75$. Since a is not 0, the function calls itself with arguments $b \% a = 75 \% 30 = 15$ and $a = 30$. Since a is still not 0, the function again calls itself with arguments $b \% a = 15 \% 30 = 15$ and $a = 15$. This time, a is equal to 0, so the function returns b , which is 15. Therefore, the output of the code is 15.

2) b) Filter

The `filter()` function returns a filter object, which is an iterator containing the elements from the input sequence that satisfy the given condition.

3) a) Tuple

4) d) Error

The given code will raise a `TypeError` because the `+` operator is not supported between sets. Union (`.`) is to be used.

5) a) Raise

`Raise` stops the normal execution of the program and passes control to the nearest exception handler that can handle the raised exception.

6) c) datetime

7) c) 208

8) a) strptime

9) b) Immutable

10) a) range()

11) c) Lambda function

12) c) Both A and B

13) b) dump() method

14) a) load() method

15) d) All of the mentioned above

16) d) Both a and b

17) d) captains = {}

18) b) captains["Enterprise"] = "Picard"
captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"

19) b) for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")

20) c) del captains["Discovery"]