

Python Beginner Homework 4

In the following multiple choice questions, please circle the correct output of Python code.

In the class, we learn that 'and' means both condition check to be true. In the homework, if you see 'or', it means if any condition check is true, the check result is true.

1. for num in range(1,20,2):
 if num%3==0 and num>10:
 print(num)
(a) 11 13 15 17 19 (b) 15 (c) 11 15 19 (d) 19 15 11 (e) no print out
2. for num in range(1,20,2):
 if num%3==0 or num>15:
 print(num)
(a) 11 13 15 17 19 (b) 15 (c) 3 9 15 16 17 18 19 (d) 19 15 11 (e) no print out
3. for num1 in range(10,0,-3):
 if num1<5 and num%3==0:
 print(num1)
(a) 5 3 1 (b) 5 4 3 2 1 (c) no print out (d) 1 4 (e) 4 1
4. for num1 in range(20,0,-5):
 if num1%3==0 or num1%4==0:
 print(num1)
(a) 20 15 10 5 0 (b) 20 15 10 5 (c) 20 15 (d) 20 10 (e) 0 10 20
5. num1=24
 num2=36
 num3=48
 for i in range(1,num1):
 if num1%i==0 and num2%i==0 and num3%i==0:
 print(i)
(a) 1 2 3 4 6 12 (b) 1 2 3 4 5 6 (c) 24 36 48 (d) 1 4 8 12 (e) 0 2 4
6. for num1=10
 num2=12
 for i in range(1,num1):
 if num1%i==0 or num2%i==0:
 print(i)
(a) 1 2 3 4 5 6 10 (b) 1 2 3 4 5 6 (c) 1 2 3 4 5 6 10 12 (d) 1 2 (e) 1

Coding question 1: Calculate LCM (least common multiple) of 2 numbers (100 and 150), result should be 300.

Coding question 2: Get 2 input numbers and calculate LCM.

Coding question 3: Print out all numbers between 1 and 100 (inclusive) that can be fully divided by 9 but cannot be fully divided by 7. Result should be 9 18 27 36 45 54 72 81 90 99.