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/ [08.01.2022\\_Practice Learning Math Problems](#)

### Question 1

Correct

Marked out of 1.00

Write python code to find highest common factor among given two numbers.

Answer: (penalty regime: 0 %)

```

1 def calculate_hcf(x, y):
2     if x > y:
3         smaller = y
4     else:
5         smaller = x
6     for i in range(1, smaller + 1):
7         if((x % i == 0) and (y % i == 0)):
8             hcf = i
9     return hcf
10 num1 = int(input())
11 num2 = int(input())
12 print("The H.C.F. is", calculate_hcf(num1, num2))

```

CHECK

	Input	Expected	Got	
✓	55 38 The H.C.F. is 1	55 38 The H.C.F. is 1	55 38 The H.C.F. is 1	✓
✓	50 250 The H.C.F. is 50	50 250 The H.C.F. is 50	50 250 The H.C.F. is 50	✓
✓	99 27 The H.C.F. is 9	99 27 The H.C.F. is 9	99 27 The H.C.F. is 9	✓

Passed all tests! ✓

**Question 2**

Correct

Marked out of 1.00

Write python code to find the Least Common Multiple among given two numbers.

Answer: (penalty regime: 0 %)

```

1 def calculate_lcm(x, y):
2     if x > y:
3         greater = x
4     else:
5         greater = y
6     while(True):
7         if((greater % x == 0) and (greater % y == 0)):
8             lcm = greater
9             break
10        greater += 1
11    return lcm
12 num1 = int(input())
13 num2 = int(input())
14 print("The L.C.M. is", calculate_lcm(num1, num2))

```

CHECK

	Input	Expected	Got	
✓	54 24 The L.C.M. is 216	54 24 The L.C.M. is 216	54 24 The L.C.M. is 216	✓
✓	568 928 The L.C.M. is 65888	568 928 The L.C.M. is 65888	568 928 The L.C.M. is 65888	✓
✓	8 7 The L.C.M. is 56	8 7 The L.C.M. is 56	8 7 The L.C.M. is 56	✓

Passed all tests! ✓

**Question 3**

Correct

Marked out of 1.00

Write python code find Least Common Multiple among given two numbers using Greatest Common Factor.

Answer: (penalty regime: 0 %)

```

1 def calculate_lcm(x, y):
2     if x > y:
3         greater = x
4     else:
5         greater = y
6     while(True):
7         if((greater % x == 0) and (greater % y == 0)):
8             lcm = greater
9             break
10        greater += 1
11    return lcm
12 num1 = int(input())
13 num2 = int(input())
14 print("The L.C.M. is", calculate_lcm(num1, num2))

```

CHECK

	Input	Expected	Got	
✓	54 24 The L.C.M. is 216	54 24 The L.C.M. is 216	54 24 The L.C.M. is 216	✓
✓	768 988 The L.C.M. is 189696	768 988 The L.C.M. is 189696	768 988 The L.C.M. is 189696	✓
✓	8 7 The L.C.M. is 56	8 7 The L.C.M. is 56	8 7 The L.C.M. is 56	✓

Passed all tests! ✓

Question 4

Correct

Marked out of 1.00

Write python code to display the factors of any given number.

Answer: (penalty regime: 0 %)

```
1 def print_factors(x):
2     print(x)
3     for i in range(1, x + 1):
4         if x % i == 0:
5             print(i)
6 num = int(input())
7 print_factors(num)
```

CHECK

	Input	Expected	Got	
✓	320	320	320	✓
	1	320	320	
	2	1	1	
	4	2	2	
	5	4	4	
	8	5	5	
	10	8	8	
	16	10	10	
	20	16	16	
	32	20	20	
	40	32	32	
	64	40	40	
	80	64	64	
	160	80	80	
	320	160	160	
		320	320	

	Input	Expected	Got	
✓	650	650	650	✓
	1	650	650	
	2	1	1	
	5	2	2	
	10	5	5	
	13	10	10	
	25	13	13	
	26	25	25	
	50	26	26	
	65	50	50	
	130	65	65	
	325	130	130	
	650	325	325	
		650	650	
✓	1098	1098	1098	✓
	1	1098	1098	
	2	1	1	
	3	2	2	
	6	3	3	
	9	6	6	
	18	9	9	
	61	18	18	
	122	61	61	
	183	122	122	
	366	183	183	
	549	366	366	
	1098	549	549	
		1098	1098	

Passed all tests! ✓

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