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/ 04.01.2022 Practice Ex.4 & 5 Learning Looping Statements & Functions

Question 1

Correct

Marked out of 1.00

Write python code to display whether the given number is prime number or not.

Answer: (penalty regime: 0 %)

```
num = int(input())
 2
 3 ▼
    if num > 1:
 4 ▼
        for i in range(2,num):
 5 •
             if (num % i) == 0:
                 print(num,"is not a prime number")
print(i,"times",num//i,"is",num)
 6
 7
 8
9,
        else:
10
             print(num, "is a prime number")
11
12 v else:
        print(num,"is not a prime number")
13
```

CHECK

	Input	Expected	Got	
~	3 3 is a prime number	3 3 is a prime number	3 3 is a prime number	~
~	6 6 is not a prime number 2 times 3 is 6	6 6 is not a prime number 2 times 3 is 6	6 6 is not a prime number 2 times 3 is 6	~
~	960 960 is not a prime number 2 times 480 is 960	960 960 is not a prime number 2 times 480 is 960	960 960 is not a prime number 2 times 480 is 960	~
~	79 79 is a prime number	79 79 is a prime number	79 79 is a prime number	~

```
Question 2
Correct
Marked out of 1.00
```

Write python code to find the factorial of the given number.

Answer: (penalty regime: 0 %)

CHECK

	Input	Expected	Got	
~	7 The factorial of 7 is 5040	7 The factorial of 7 is 5040	7 The factorial of 7 is 5040	~
~	-9 Sorry, factorial does not exist for negative numbers	-9 Sorry, factorial does not exist for negative numbers	<pre>-9 Sorry, factorial does not exist for negative numbers</pre>	~
~	15 The factorial of 15 is 1307674368000	15 The factorial of 15 is 1307674368000	15 The factorial of 15 is 1307674368000	~

```
Question 3
Correct
Marked out of 1.00
```

Write python code to display the prime numbers within the given set of range.

Answer: (penalty regime: 0 %)

CHECK

	Input	Expected	Got	
~	900	900	900	~
	1000	1000	1000	
	Prime numbers between 900 and 1000	Prime numbers between 900 and 1000	Prime numbers between 900 and 1000	
	are:	are:	are:	
	907	907	907	
	911	911	911	
	919	919	919	
	929	929	929	
	937	937	937	
	941	941	941	
	947	947	947	
	953	953	953	
	967	967	967	
	971	971	971	
	977	977	977	
	983	983	983	
	991	991	991	
	997	997	997	

	Input	Expected	Got	
~	554	554	554	~
	984	984	984	
	Prime numbers between 554 and 984	Prime numbers between 554 and 984	Prime numbers between 554 and 984	
	are:	are:	are:	
	557	557	557	
	563	563	563	
	569	569	569	
	571	571	571	
	577	577	577	
	587 593	587 593	587 593	
	599	599	599	
	601	601	601	
	607	607	607	
	613	613	613	
	617	617	617	
	619	619	619	
	631	631	631	
	641	641	641	
	643	643	643	
	647	647	647	
	653	653	653	
	659	659	659	
	661	661	661	
	673	673	673	
	677	677	677	
	683	683	683	
	691	691	691	
	701	701	701	
	709	709	709	
	719	719	719	
	727	727	727	
	733	733	733	
	739	739	739	
	743	743	743	
	751	751	751	
	757	757	757	
	761 769	761 769	761 769	
	773	773	773	
	787	787	787	
	797	797	797	
	809	809	809	
	811	811	811	
	821	821	821	
	823	823	823	
	827	827	827	
	829	829	829	
	839	839	839	
	853	853	853	
	857	857	857	
	859	859	859	
	863	863	863	
	877	877	877	
	881	881	881	
	883	883	883	
	887	887	887	
	907	907	907	
	911	911	911	
		919	919	
	919			1
	929	929	929	
	929 937	937	937	
	929 937 941	937 941	937 941	
	929 937 941 947	937 941 947	937 941 947	
	929 937 941 947 953	937 941 947 953	937 941 947 953	
	929 937 941 947 953 967	937 941 947 953 967	937 941 947 953 967	
	929 937 941 947 953	937 941 947 953	937 941 947 953	

			4 0	
	Input	Expected	Got	
~	0	0	0	~
	100	100	100	
	Prime numbers between 0 and 100	Prime numbers between 0 and 100	Prime numbers between 0 and 100	
	are:	are:	are:	
	2	2	2	
	3	3	3	
	5	5	5	
	7	7	7	
	11	11	11	
	13	13	13	
	17	17	17	
	19	19	19	
	23	23	23	
	29	29	29	
	31	31	31	
	37	37	37	
	41	41	41	
	43	43	43	
	47	47	47	
	53	53	53	
	59	59	59	
	61	61	61	
	67	67	67	
	71	71	71	
	73	73	73	
	79	79	79	
	83	83	83	
	89	89	89	
	97	97	97	

```
Question 4
Correct
```

Marked out of 1.00

Write python code to display the multiplication table of any given number.

Answer: (penalty regime: 0 %)

```
humber = int(input (""))
2  # We are using "for loop" to iterate the multiplication 10 times

#print ("", number)
for count in range(1, 11):
    print (number, 'x', count, '=', number * count)
```

CHECK

	Input	Expected	Got	
~	13	13	13	~
	13 x 1 = 13	13 x 1 = 13	13 x 1 = 13	
	13 x 2 = 26	13 x 2 = 26	13 x 2 = 26	
	13 x 3 = 39	13 x 3 = 39	13 x 3 = 39	
	13 x 4 = 52	13 x 4 = 52	13 x 4 = 52	
	13 x 5 = 65	13 x 5 = 65	13 x 5 = 65	
	13 x 6 = 78	13 x 6 = 78	13 x 6 = 78	
	13 x 7 = 91	13 x 7 = 91	13 x 7 = 91	
	13 x 8 = 104	13 x 8 = 104	13 x 8 = 104	
	13 x 9 = 117	13 x 9 = 117	13 x 9 = 117	
	13 x 10 = 130	13 x 10 = 130	13 x 10 = 130	
~	19	19	19	~
	19 x 1 = 19	19 x 1 = 19	19 x 1 = 19	
	19 x 2 = 38	19 x 2 = 38	19 x 2 = 38	
	19 x 3 = 57	19 x 3 = 57	19 x 3 = 57	
	19 x 4 = 76	19 x 4 = 76	19 x 4 = 76	
	19 x 5 = 95	19 x 5 = 95	19 x 5 = 95	
	19 x 6 = 114	19 x 6 = 114	19 x 6 = 114	
	19 x 7 = 133	19 x 7 = 133	19 x 7 = 133	
	19 x 7 = 133 19 x 8 = 152	19 x 7 = 133 19 x 8 = 152	19 x 7 = 133 19 x 8 = 152	

04.01.2022_11actice					
	Input	Expected	Got		
~	29	29	29	~	
	29 x 1 = 29	29 x 1 = 29	29 x 1 = 29		
	29 x 2 = 58	29 x 2 = 58	29 x 2 = 58		
	29 x 3 = 87	29 x 3 = 87	29 x 3 = 87		
	29 x 4 = 116	29 x 4 = 116	29 x 4 = 116		
	29 x 5 = 145	29 x 5 = 145	29 x 5 = 145		
	29 x 6 = 174	29 x 6 = 174	29 x 6 = 174		
	29 x 7 = 203	29 x 7 = 203	29 x 7 = 203		
	29 x 8 = 232	29 x 8 = 232	29 x 8 = 232		
	29 x 9 = 261	29 x 9 = 261	29 x 9 = 261		
	29 x 10 = 290	29 x 10 = 290	29 x 10 = 290		
~	37	37	37	~	
	37 x 1 = 37	37 x 1 = 37	37 x 1 = 37		
	37 x 2 = 74	37 x 2 = 74	37 x 2 = 74		
	37 x 3 = 111	37 x 3 = 111	37 x 3 = 111		
	37 x 4 = 148	37 x 4 = 148	37 x 4 = 148		
	37 x 5 = 185	37 x 5 = 185	37 x 5 = 185		
	37 x 6 = 222	37 x 6 = 222	37 x 6 = 222		
	37 x 7 = 259	37 x 7 = 259	37 x 7 = 259		
	37 x 8 = 296	37 x 8 = 296	37 x 8 = 296		
	37 x 9 = 333	37 x 9 = 333	37 x 9 = 333		
	37 x 10 = 370	37 x 10 = 370	37 x 10 = 370		
~	49	49	49	~	
	49 x 1 = 49	49 x 1 = 49	49 x 1 = 49		
	49 x 2 = 98	49 x 2 = 98	49 x 2 = 98		
	49 x 3 = 147	49 x 3 = 147	49 x 3 = 147		
	49 x 4 = 196	49 x 4 = 196	49 x 4 = 196		
	49 x 5 = 245	49 x 5 = 245	49 x 5 = 245		
	49 x 6 = 294	49 x 6 = 294	49 x 6 = 294		
	49 x 7 = 343	49 x 7 = 343	49 x 7 = 343		
	49 x 8 = 392	49 x 8 = 392	49 x 8 = 392		
	49 x 9 = 441	49 x 9 = 441	49 x 9 = 441		
	49 x 10 = 490	49 x 10 = 490	49 x 10 = 490		

Question 5 Correct Marked out of 1.00

Write python code to compute and display the Fibonacci sequence of the given number.

Answer: (penalty regime: 0 %)

```
nterms = int(input())
    n1, n2 = 0, 1
count = 0
 3
 4
5
 6 v if nterms <= 0:
 7
        print("Please enter a positive integer")
 8
 9 v elif nterms == 1:
        print("Fibonacci sequence upto",nterms,":")
10
11
        print(n1)
12
13 v else:
14
        print("Fibonacci sequence:")
        while count < nterms:
    print(n1)</pre>
15 •
16
17
            nth = n1 + n2
18
19
            n1 = n2
            n2 = nth
20
21
            count += 1
```

CHECK

	Input	Expected	Got	
~	7	7	7	~
	Fibonacci sequence:	Fibonacci sequence:	Fibonacci sequence:	
	0	0	0	
	1	1	1	
	1	1	1	
	2	2	2	
	3	3	3	
	5	5	5	
	8	8	8	

	Input	Expected	Got	
~	19	19	19	~
	Fibonacci sequence:	Fibonacci sequence:	Fibonacci sequence:	
	0	0	0	
	1	1	1	
	1	1	1	
	2	2	2	
	3	3	3	
	5	5	5	
	8	8	8	
	13	13	13	
	21	21	21	
	34	34	34	
	55	55	55	
	89	89	89	
	144	144	144	
	233	233	233	
	377	377	377	
	610	610	610	
	987	987	987	
	1597	1597	1597	
	2584	2584	2584	
~	13	13	13	~
	Fibonacci sequence:	Fibonacci sequence:	Fibonacci sequence:	
	0	0	0	
	1	1	1	
	1	1	1	
	2	2	2	
	3	3	3	
	5	5	5	
	8	8	8	
	13	13	13	
	21	21	21	
	34	34	34	
	55	55	55	
	89	89	89	
	144	144	144	

Passed all tests! 🗸

◀ 28.12.2021 Ex 3: Learning Square Root & Swap function

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