Started on	Tuesday, 4 January 2022, 3:50 PM
State	Finished
Completed on	Tuesday, 4 January 2022, 3:53 PM
Time taken	2 mins 51 secs
Grade	**6.00** out of 6.00 (**100**%)

Question 1

Correct

Mark 1.00 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())

if num > 1:
   for i in range(2,num):
       if (num % i) == 0:
           print(num,"is not a prime number")
           print(i,"times",num//i,"is",num)
           break
   else:
       print(num,"is a prime number")

else:
   print(num,"is not a prime number")
```

	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	✔

Passed all tests! ✔

Question author's solution (Python3):

```
num = int(input())
if num > 1:
   for i in range(2,num):
       if (num % i) == 0:
           print(num,"is not a prime number")
           print(i,"times",num//i,"is",num)
           break
   else:
       print(num,"is a prime number")
else:
   print(num,"is not a prime number")
```

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

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

Answer: (penalty regime: 0 %)

```
num = int(input())

factorial = 1

if num < 0:
   print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
   print("The factorial of 0 is 1")
else:
   for i in range(1,num + 1):
       factorial = factorial*i
   print("The factorial of",num,"is",factorial)
```

	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	-9 Sorry, factorial does not exist for negative numbers	✔
✔	15 The factorial of 15 is 1307674368000	15 The factorial of 15 is 1307674368000	15 The factorial of 15 is 1307674368000	✔

Passed all tests! ✔

Question author's solution (Python3):

```
num = int(input())
factorial = 1
if num < 0:
   print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
   print("The factorial of 0 is 1")
else:
   for i in range(1,num + 1):
       factorial = factorial*i
   print("The factorial of",num,"is",factorial)
```

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

Answer: (penalty regime: 0 %)

```
lower = int(input(""))
upper = int(input(""))
print("Prime numbers between", lower, "and",upper, "are:")

for num in range(lower,upper + 1):
   if num > 1:
       for i in range(2,num):
           if (num % i) == 0:
               break
       else:
           print(num)
```

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

	Input	Expected	Got	
✔	554 984 Prime numbers between 554 and 984 are: 557 563 569 571 577 587 593 599 601 607 613 617 619 631 641 643 647 653 659 661 673 677 683 691 701 709 719 727 733 739 743 751 757 761 769 773 787 797 809 811 821 823 827 829 839 853 857 859 863 877 881 883 887 907 911 919 929 937 941 947 953 967 971 977 983	554 984 Prime numbers between 554 and 984 are: 557 563 569 571 577 587 593 599 601 607 613 617 619 631 641 643 647 653 659 661 673 677 683 691 701 709 719 727 733 739 743 751 757 761 769 773 787 797 809 811 821 823 827 829 839 853 857 859 863 877 881 883 887 907 911 919 929 937 941 947 953 967 971 977 983	554 984 Prime numbers between 554 and 984 are: 557 563 569 571 577 587 593 599 601 607 613 617 619 631 641 643 647 653 659 661 673 677 683 691 701 709 719 727 733 739 743 751 757 761 769 773 787 797 809 811 821 823 827 829 839 853 857 859 863 877 881 883 887 907 911 919 929 937 941 947 953 967 971 977 983	✔

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

Passed all tests! ✔

Question author's solution (Python3):

```
lower = int(input())
upper = int(input())
print("Prime numbers between", lower, "and", upper, "are:")

for num in range(lower, upper + 1):
    # all prime numbers are greater than 1
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                break
        else:
            print(num)
```

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

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

Answer: (penalty regime: 0 %)

```
number = int(input (""))
# 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)
```

	Input	Expected	Got	
✓	13 13 x 1 = 13 13 x 2 = 26 13 x 3 = 39 13 x 4 = 52 13 x 5 = 65 13 x 6 = 78 13 x 7 = 91 13 x 8 = 104 13 x 9 = 117 13 x 10 = 130	13 13 x 1 = 13 13 x 2 = 26 13 x 3 = 39 13 x 4 = 52 13 x 5 = 65 13 x 6 = 78 13 x 7 = 91 13 x 8 = 104 13 x 9 = 117 13 x 10 = 130	13 13 x 1 = 13 13 x 2 = 26 13 x 3 = 39 13 x 4 = 52 13 x 5 = 65 13 x 6 = 78 13 x 7 = 91 13 x 8 = 104 13 x 9 = 117 13 x 10 = 130	✓
✓	19 19 x 1 = 19 19 x 2 = 38 19 x 3 = 57 19 x 4 = 76 19 x 5 = 95 19 x 6 = 114 19 x 7 = 133 19 x 8 = 152 19 x 9 = 171 19 x 10 = 190	19 19 x 1 = 19 19 x 2 = 38 19 x 3 = 57 19 x 4 = 76 19 x 5 = 95 19 x 6 = 114 19 x 7 = 133 19 x 8 = 152 19 x 9 = 171 19 x 10 = 190	19 19 x 1 = 19 19 x 2 = 38 19 x 3 = 57 19 x 4 = 76 19 x 5 = 95 19 x 6 = 114 19 x 7 = 133 19 x 8 = 152 19 x 9 = 171 19 x 10 = 190	✓
✓	29 29 x 1 = 29 29 x 2 = 58 29 x 3 = 87 29 x 4 = 116 29 x 5 = 145 29 x 6 = 174 29 x 7 = 203 29 x 8 = 232 29 x 9 = 261 29 x 10 = 290	29 29 x 1 = 29 29 x 2 = 58 29 x 3 = 87 29 x 4 = 116 29 x 5 = 145 29 x 6 = 174 29 x 7 = 203 29 x 8 = 232 29 x 9 = 261 29 x 10 = 290	29 29 x 1 = 29 29 x 2 = 58 29 x 3 = 87 29 x 4 = 116 29 x 5 = 145 29 x 6 = 174 29 x 7 = 203 29 x 8 = 232 29 x 9 = 261 29 x 10 = 290	✓

	Input	Expected	Got	
✔	37 37 x 1 = 37 37 x 2 = 74 37 x 3 = 111 37 x 4 = 148 37 x 5 = 185 37 x 6 = 222 37 x 7 = 259 37 x 8 = 296 37 x 9 = 333 37 x 10 = 370	37 37 x 1 = 37 37 x 2 = 74 37 x 3 = 111 37 x 4 = 148 37 x 5 = 185 37 x 6 = 222 37 x 7 = 259 37 x 8 = 296 37 x 9 = 333 37 x 10 = 370	37 37 x 1 = 37 37 x 2 = 74 37 x 3 = 111 37 x 4 = 148 37 x 5 = 185 37 x 6 = 222 37 x 7 = 259 37 x 8 = 296 37 x 9 = 333 37 x 10 = 370	✔
✔	49 49 x 1 = 49 49 x 2 = 98 49 x 3 = 147 49 x 4 = 196 49 x 5 = 245 49 x 6 = 294 49 x 7 = 343 49 x 8 = 392 49 x 9 = 441 49 x 10 = 490	49 49 x 1 = 49 49 x 2 = 98 49 x 3 = 147 49 x 4 = 196 49 x 5 = 245 49 x 6 = 294 49 x 7 = 343 49 x 8 = 392 49 x 9 = 441 49 x 10 = 490	49 49 x 1 = 49 49 x 2 = 98 49 x 3 = 147 49 x 4 = 196 49 x 5 = 245 49 x 6 = 294 49 x 7 = 343 49 x 8 = 392 49 x 9 = 441 49 x 10 = 490	✔

Passed all tests! ✔

Question author's solution (Python3):

```
num = int(input())
for i in range(1, 11):
    print(num, 'x', i, '=', num*i)
```

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 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

if nterms <= 0:
   print("Please enter a positive integer")

elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)

else:
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
       nth = n1 + n2

       n1 = n2
       n2 = nth
       count += 1
```

	Input	Expected	Got	
✔	7 Fibonacci sequence: 0 1 1 2 3 5 8	7 Fibonacci sequence: 0 1 1 2 3 5 8	7 Fibonacci sequence: 0 1 1 2 3 5 8	✔
✔	19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	✔

	Input	Expected	Got	
✔	13 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144	13 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144	13 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144	✔

Passed all tests! ✔

Question author's solution (Python3):

```
nterms = int(input())
n1, n2 = 0, 1
count = 0
if nterms <= 0:
   print("Please enter a positive integer")
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)
else:
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
       nth = n1 + n2
       n1 = n2
       n2 = nth
       count += 1
```

Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00

Write python code to print calendar for any random year.

Answer: (penalty regime: 0 %)

```
import calendar

year = int(input())
month = int(input())

print(calendar.month(year, month))
```

	Input	Expected	Got	
✔	2014 11	2014 11	2014 11	✔

```
   November 2014
Mo Tu We Th Fr Sa Su
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```

Passed all tests! ✔

Question author's solution (Python3):

```
import calendar
yy = int(input())
mm = int(input())
print(calendar.month(yy, mm))
```

Correct

Marks for this submission: 1.00/1.00.

◀ 28.12.2021 Ex 3: Learning Square Root & Swap function

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