7/1/2019 mypractice

```
In [2]:
             def fibonacci(num):
          2
                 num = int(input())
          3
                 first = 0
          4
                 second = 1
          5
                 #print("\nfibonacci series is:")
          6
          7
                 print(first, ",", second, end=", ")
          8
          9
                 for i in range(2, num):
         10
                      next = first + second
         11
                     print(next, end=", ")
         12
                     first = second
         13
         14
                      second = next
         15
             fibonacci(num)
        10
        0 , 1, 1, 2, 3, 5, 8, 13, 21, 34,
In [3]:
             lower = 900
          2
             upper = 1000
          3
             # uncomment the following lines to take input from the user
          5
             #lower = int(input("Enter lower range: "))
             #upper = int(input("Enter upper range: "))
          6
          7
             print("Prime numbers between",lower,"and",upper,"are:")
          8
          9
         10
             for num in range(lower, upper + 1):
                # prime numbers are greater than 1
         11
                if num > 1:
         12
         13
                    for i in range(2,num):
                         if (num % i) == 0:
         14
         15
                             break
         16
                    else:
         17
                         print(num)
        Prime numbers between 900 and 1000 are:
        907
        911
        919
        929
        937
        941
        947
        953
        967
        971
        977
        983
        991
        997
```

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```
number = int(input("Enter any number: "))
In [ ]:
          1
          3
             # prime number is always greater than 1
             if number > 1:
          4
                 for i in range(2, number):
          5
          6
                     if (number % i) == 0:
                         print(number, "is not a prime number")
          7
          8
          9
                 else:
                     print(number, "is a prime number")
         10
         11
             # if the entered number is less than or equal to 1
         12
             # then it is not prime number
         14
             else:
         15
                 print(number, "is not a prime number")
```

```
In [4]:
             Number = int(input("Please Enter any Number: "))
          1
          2
             Sum = 0
          3
          4
             while(Number > 0):
                 Reminder = Number % 10
          5
          6
                 Sum = Sum + Reminder
          7
                 Number = Number //10
          8
             print("\n Sum of the digits of Given Number = %d" %Sum)
```

Please Enter any Number: 678

Sum of the digits of Given Number = 21

```
In [ ]:
             num = 7
          1
          2
             # uncomment to take input from the user
             #num = int(input("Enter a number: "))
          5
             factorial = 1
          6
          7
             # check if the number is negative, positive or zero
          8
          9
             if num < 0:
                print("Sorry, factorial does not exist for negative numbers")
         10
             elif num == 0:
         11
         12
                print("The factorial of 0 is 1")
         13
             else:
         14
                for i in range(1,num + 1):
         15
                    factorial = factorial*i
                print("The factorial of", num, "is", factorial)
         16
```

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```
In [ ]:
             while True:
          1
                 x=input("Enter a string: ")
          2
                 if x==x[::-1]:
          3
          4
                     print ("It's a palindrom")
          5
                 else:
                     print ("It's not a palindrom")
          6
        Enter a string: hioih
        It's a palindrom
        Enter a string: hiooo
        It's not a palindrom
In [ ]:
```