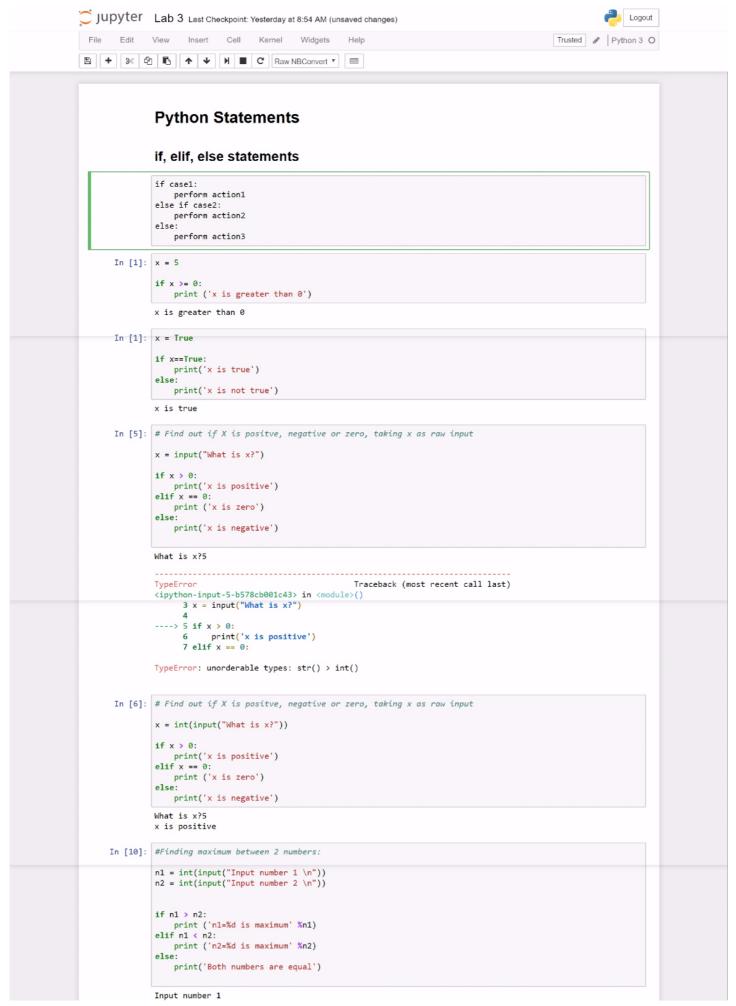
screenshot-localhost-8890-2017-10-12-09-25-12-876 http://localhost:8890/notebooks/Desktop/Python%20Modules/Lab%203/Lab%203%20.ipynb#



```
Input number 2
          n2=6 is maximum
In [20]: # equality between 3 numbers
          n1 = int(input("Input number 1 \n"))
n2 = int(input("Input number 2 \n"))
          n3 = int(input("Input number 3 \n"))
          if n1 >= n2 and n1 >= n3:
    print ('%d is maximum' % n1)
elif n2 >= n1 and n2 >= n3:
          print ('%d is maximum' % n2)
elif n3 >= n1 and n3 >= n2:
               print ('%d is maximum' % n3)
           #if n1 >= n2 & n1 >= n3 will also work
          Input number 1
          Input number 2
          Input number 3
          6 is maximum
          for Loops
          for item in object:
               statement for to do stuff
In [25]: num_list = [1,2,3,4,5]
           for num in num_list:
              print (num)
          1
          4
          5
In [26]: num_list = [1,2,3,4,5]
           for x in num_list:
              print (x)
               print ('whats up?')
          whats up?
          whats up?
          whats up?
          whats up?
          whats up?
In [28]: #Finding number is odd or even
           odd_even = [1,2,3,4,5,6,7,8,9,10]
           for num in odd_even:
              if num % 2 == 0:
    print ('%d is even' %num)
elif num % 2 == 1:
                   print ('%d is odd' %num)
          1 is odd
          2 is even
          3 is odd
          4 is even
          5 is odd
          6 is even
          7 is odd
          8 is even
          9 is odd
In [44]: # For each number in the list below, print it the same number of times as its value. For e.g print 5, f
          num_list = [7,5,4,10,5]
           for num in num_list:
                j = num
               for i in range(0,j):
print(num, end=' ')
               print()
          # Mind what 'in range' is doing here
          4
          5 5 5 5 5
```

```
4 4 4 4
          10 10 10 10 10 10 10 10 10 10
          5 5 5 5 5
         range(0,5) is 0,1,2,3,4
In [3]: #print first n integers:
          n = 10
          for i in range(0,10):
              print (i)
          3
          4
          5
In [4]: n = 10
          for i in range (0,10,2):
         print (i)
          6
          8
In [5]: #Print first n integers starting from 1:
n = 10
          for i in range (0,10):
              print(i+1)
          1
          5
          6
7
          10
In [6]: #Print sum of first n integers:
          n = 10
          sum = 0
          for i in range(0,n):
              sum = sum + (i+1)
          print(sum)
          55
In [3]: #Create a triangle which will print no of 1,s equal to the row number
          for i in range(0,n):
             list1 = [1]
list1 = list1 * (i+1)
              print (list1)
         [1]
          [1, 1]
          [1, 1, 1]
          [1, 1, 1, 1]
          while Statement
In [2]: x = 0
          while x <=10:
             print ('The current value of x is %d' %x )
              x = x+1
         The current value of x is 0 The current value of x is 1 The current value of x is 2
          The current value of x is 3
         The current value of x is 4
The current value of x is 5
The current value of x is 6
The current value of x is 7
          The current value of x is 8
          The current value of \boldsymbol{x} is 9
          The current value of x is 10
In [3]: x = 0
```

```
while x <=10:
             print ('The current value of x is %d' %x )
              x = x+1
          else:
            print ('While loop successfully executed')
          The current value of x is 0
          The current value of x is 1
          The current value of x is 2
          The current value of x is 3
          The current value of x is 4
          The current value of x is 5
          The current value of x is 6
          The current value of x is 7
          The current value of x is 8
          The current value of x is 9
          The current value of x is 10
          While loop successfully executed
 In [4]: # Print from 1 to 10 & let the user know when its divisible by 5 or not
          while x <=10:
             print ('Value of x is %d' %x)
              if x % 5 == 0:
                  print ('Whoa! %d divisible by 5' %x)
              else:
                  print ('%d is not divisible by 5' %x)
              x = x + 1
          Value of x is 1
          1 is not divisible by 5
          Value of x is 2
          2 is not divisible by 5
          Value of x is 3
          3 is not divisible by 5
          Value of x is 4
          4 is not divisible by 5
         Value of x is 5
Whoa! 5 divisible by 5
          Value of x is 6
          6 is not divisible by 5
          Value of x is 7
          7 is not divisible by 5
          Value of x is 8
          8 is not divisible by 5
          Value of x is 9
          9 is not divisible by 5
          Value of x is 10
          Whoa! 10 divisible by 5
In [12]: # Start printing from 1 till the the number occues which
#is divisible by 5 or its less than 10
          x = 0
          while x <= 10:
             print ('The value of x is %d' %x)
              x = x + 1
              if x % 5 ==0:
                  print ('The first x divisbel by 5 is %d' %x)
                  break
                  print ('Continuing')
                  continue
          The value of x is 0
          Continuing
          The value of x is 1
          Continuing
          The value of x is 2
          Continuing
          The value of x is 3
         Continuing
The value of x is 4
          The first x divisbel by 5 is 5
```