week 2 1/4/22, 5:02 PM

```
In [40]: #Task1
         str = "371072875339021027987979982208375902465101357402504637693767749
         sum(map(int, str))
Out [40]: 22660
In [41]: str[-10:]
Out[41]: '4330331690'
In [43]: #Task2
         # importing functools for reduce()
         import functools
         # initializing list
         lis=list(range(1,501))
         #print(lis)
         cubes_sum=functools.reduce(lambda x,y: x+y**y,lis)
         last10=cubes sum(10**10)
         print(last10)
         1688579600
In [49]: | #Task 3
         # importing itertools module
         import itertools
         # creating a list numbers
         l = [2, 1, 2, 3, 1, 3, 2, 1, 3, 3, 1, 3, 2, 3, 1, 2, 1, 3, 2, 3]
         # sorting the list numbers
         l = sorted(1)
         print("key", " grouped result set")
         # grouping the values and printing the key and grouped result set
         for key, group in itertools.groupby(l):
             print(key," ",list(group))
         key grouped result set
              [1, 1, 1, 1, 1, 1]
         2
             [2, 2, 2, 2, 2, 2]
```

[3, 3, 3, 3, 3, 3, 3]

week 2 1/4/22, 5:02 PM

In []:	
in i i !	
T-11	