**#1: Write a function that accepts a list of strings from stdin, and sorts it based on length of those strings. The output is the sorted list of strings.**

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| >>> def fun():  import sys  list=["qwert","sd","yui"]  for line in sys.stdin:  new\_list=sorted(list,key=len)  print new\_list    >>> fun()  ['sd', 'yui', 'qwert'] |

**#3. Write a factorisation function which accepts an integer (less than 100000) and prints all its factors greater than 1. It should also print whether a number is prime; if so.**

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| def factors(x):  print("the factor of",x,"are:")  for i in range(1,100000):  if x%i==0:  print(i)  >>> factors(35)  ('the factor of', 35, 'are:')  1  5  7  35 |