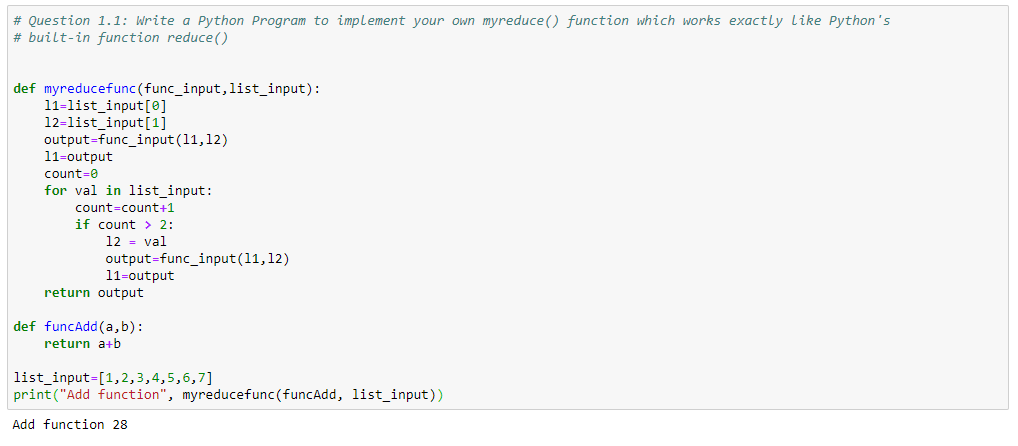
**Screenshot – Assignment 3 by Venneti Kalyana Chakravarthy**

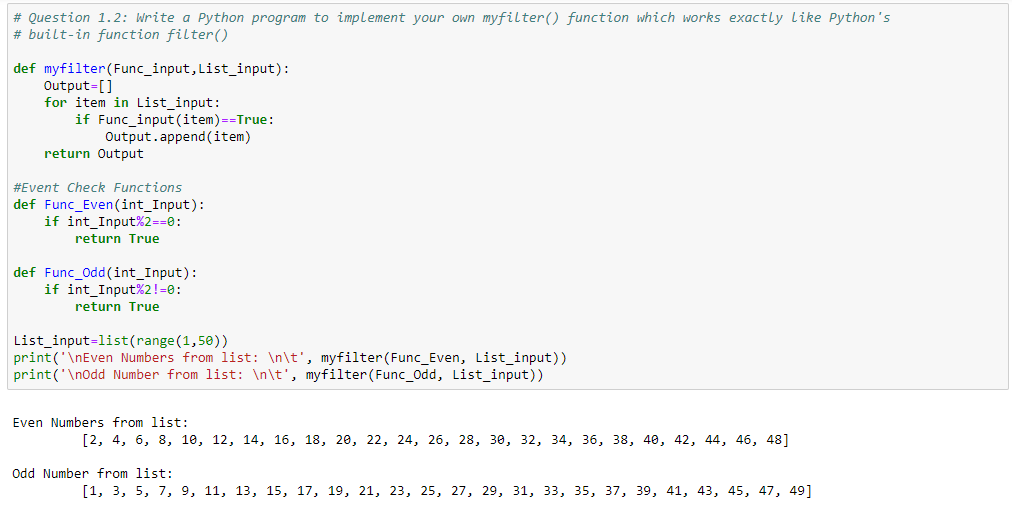
**Question 1.1:** Write a Python Program to implement your own myreduce() function which works exactly like Python's built-in function reduce()

**Solution:**



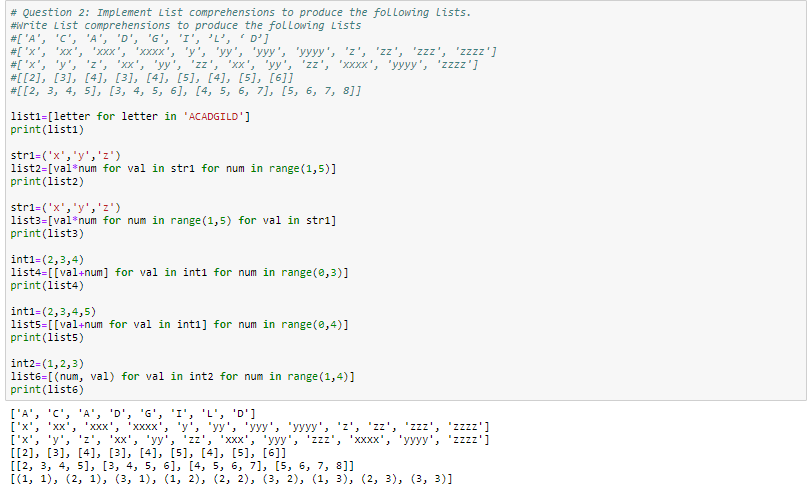
**Question 1.2:** Write a Python program to implement your own myfilter() function which works exactly like Python's built-in function filter()

**Solution:**



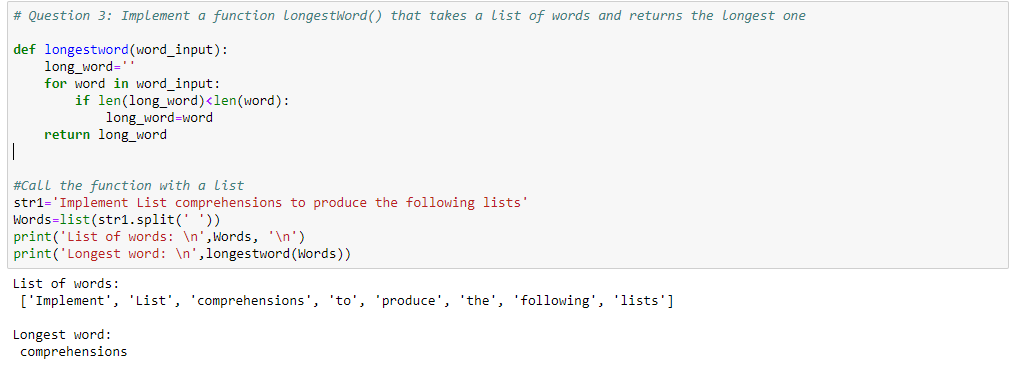
**Question 2:** Implement List comprehensions to produce the following lists. Write List comprehensions to produce the following Lists  
['A', 'C', 'A', 'D', 'G', 'I', ’L’, ‘ D’]  
['x', 'xx', 'xxx', 'xxxx', 'y', 'yy', 'yyy', 'yyyy', 'z', 'zz', 'zzz', 'zzzz']  
['x', 'y', 'z', 'xx', 'yy', 'zz', 'xx', 'yy', 'zz', 'xxxx', 'yyyy', 'zzzz']  
[[2], [3], [4], [3], [4], [5], [4], [5], [6]]  
[[2, 3, 4, 5], [3, 4, 5, 6], [4, 5, 6, 7], [5, 6, 7, 8]]  
[(1, 1), (2, 1), (3, 1), (1, 2), (2, 2), (3, 2), (1, 3), (2, 3), (3, 3)]

**Solution:**

****

**Question 3:** Implement a function longestWord() that takes a list of words and returns the longest one.

**Solution:**

****