

Assignment - Day 12

1. Join two sorted lists such that the final list is also sorted

[Marks: 2]

Refer the files **sonnet_words.txt** & **sowpods.txt** file to answer the following questions

- 2. Use the two files shared to solve following problems:
 - a. Print the longest palindrome in sowpods.txt [Marks: 3]
 - b. Print the words that are in sonnet_words.txt but not in sowpods.txt [Marks: 5]
- **3.** Implement the circle problem using object oriented approach:
 - a. Create a circle class
 - b. Take center coordinates and radius as attributes
 - c. Define all related functions within the class like
 - i. Area
 - ii. Perimeter
 - iii. Center distance from origin
 - iv. Circumference distance from origin
 - d. Handle any exceptions and Not valid scenarios

[Marks: 7]