ADSA-2022 Lab Assignment – 13 **Date: 22-11-2022**

Instructions

1. This is an individual assignment.

2. Your code must completely be your own. You are not allowed to take guidance from any general-purpose code or problem specific code meant to solve these or related problems. Remember, it is easy to detect this kind of plagiarism.

3. All the PROBLEMS are COMPULSORY.

4. **Write only a single main function**. You can call the required functions from the main function.

4. Name the file as follows: S2021xxxxx_A13.c

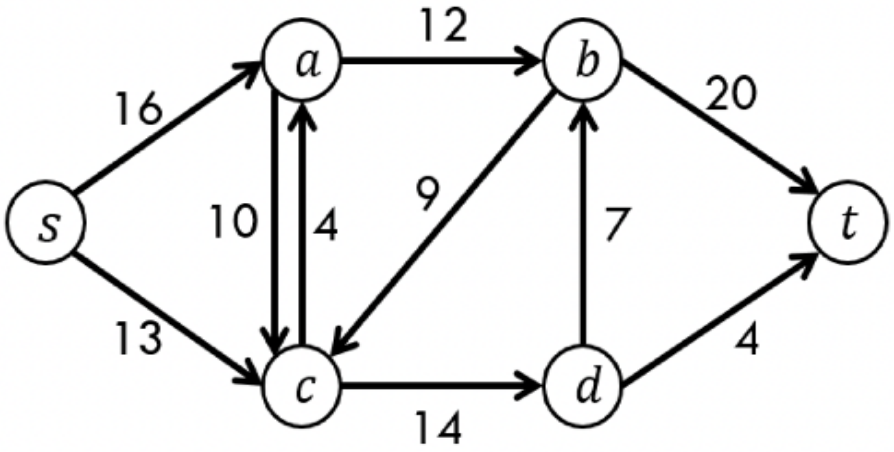
5. DO NOT zip. **Upload a single .c file** directly to your submission in the common Google classroom.

Question 1: [5 marks]

String 1 =
TTCTACGGGGGGAGACCTTTACGAATCACACCGGTCTTCTTTGTTCTAGCCGCTCTTTTTCATCAGTT GCAGCTAGTGCATAATTGCTCACAAACGTATC
String 2 =
TCTACGGGGGGCGTCATTACGGAATCCACACAGGTCGTTATGTTCATCTGTCTCTTTTCACAGTTGCG GCTTGTGCATAATGCTCACGAACGTATC

Write a function to find the length of the longest common subsequence for two strings.

Question 2: [5 marks]



Write a function to find the maximum flow of the given graph using a simple maximum flow algorithm.

Practice Question:

Solve the flow network given in Qn 2. using the Ford-Fulkerson algorithm.