DHA Suffa University
Department of Computer Science
CS206L – Operating Systems - Lab
Fall 2017

LAB ASSIGNMENT 02

1. **Write a C++ program that takes transpose of a matrix of R X C order (a 2D array of R rows and C columns using #define).**
   - **Read the values in the matrix by user.**
   - **The transpose should be saved in a matrix (Not Just Printing).**

E.g:

Matrix	Transpose
3 5 7 8 9 4	3 8 5 9 7 4

Matrix	Transpose
8 5 6 7 4 2 0 8	8 6 4 0 5 7 2 8

2. **Write a C++ program to check whether a user entered string (without spaces and only lower-case letters) is palindrome or not?**
   - **A palindrome is a string that is the same read backwards or forwards. E.g: "racecar" is the same read backwards so "YES. It is a Palindrome"**

Submission Instructions:

1. **Number your C++ files as question number e.g. Q1.cpp, Q2.cpp, etc. (Q is in upper case)**
2. **For every cpp file, there should be a word file containing at least ten snapshots on different stages of editing the code in vi.**
3. **Create a new folder named cs152abc where abc is your 3 digit roll #. e.g. cs152111.**
4. **Copy all the C++ files and word files into this folder.**
5. **Right-click on the folder you created and create a zip file by selecting the option**
   - **"Send to" and selecting "Compressed (zipped) folder" [for windows].**
   - **"Create Archive" and change option to ".zip" instead of ".tar.gz" and click on "Create". [for linux]**

   Now make sure a zip file named cs152abc.zip is created e.g. *cs152111.zip*.
6. **(A) Compose a new email, attach this zip file and send email to *oslabatdsu@gmail.com*.**
   - **The subject of the email must be:**

     4A-Lab02-cs152abc **where 4A is the section you're enrolled in and abc is your 3 digit unique roll#.**

     4A-Lab02-cs152001

   (B) The body of the email must contain:

   Full Name
   DSU Roll #
   Section
   Lab Number #
7. **To double check whether your assignment was submitted or not make sure the Sent Items folder of your email account contains the email you just sent.**
8. **Due Date for assignment submission is Sept 10, 2017.**