National University of Sciences and Technology (NUST)
School of Electrical Engineering and Computer Science

Department of Computing

CS250: Data Structure and Algorithms

Class: BSCS 5AB

Lab 3: Linked List & OpenGL

Date:4th October, 2016

Time: 9am- 12pm / 2pm – 5pm

Instructor: Shamyl Bin Mansoor / Akhtar Munir

Lab 3: Linked List & OpenGL

Introduction

The Lab consists of Dynamic Singly linked list in an openGL (glut) application

Objectives

In this lab you will learn the basic operations of linked lists by using an openGL based example.

Tools/Software Requirement

Visual Studio c++ , given code on LMS

Description

The basic operation consist of creating the list, initialize pointers to NULL, inserting nodes, insert at beginning, insert at last and deleting nodes from front.

Lab Tasks

You are required to upload the lab tasks on LMS and the name of that tasks must be in this format YourFullName_reg#.cpp

Remember to comment your code properly.

Task 1

Understand the given openGL code and the circle linked list.

Task 2

In the given code

- add a function to insert a circle at a specific location in the linked list
- add a function to delete a specific numbered circle from the linked list

Write your own simple code.

Deliverable

Students are required to upload the lab task on LMS before the deadline.