

HACETTEPE UNIVERSITY



DEPARTMENT OF COMPUTER ENGINEERING
BBM203 Software Laboratory
Experiment 3

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SECTION : 02

SUBJECT : Linked Lists

PROGRAMMING LANGUAGE : C++

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1.INTRODUCTION / AIM

In this experiment , People are expected to gain knowledge on C++ language including read-write files, pointers , classes and linked lists.

2.PROBLEM

To create a linked list includes footballers and their goals and according to commands , to navigate in this linked list..

3.HOW TO SOLVE PROBLEM (Summary Of Code)

There are 3 files that assignment3.cpp , Functions.h and Class.h. assignment3.cpp includes only main function and createLinkedList and workOperands functions works in it. Also in main function sends textNames to this function by argv. After that Class.h includes exactly 3 class. Their names footballer , goal and team. In this classes includes some functions like addGoal , set-get methods . After that for Functions.h there are a global pointer named footballer_head . By it , footballers are added to linkedlist . In Functions.h< createLinkedList function , text opens and footballer_name , team_name e.q. are gotten and find_Footballer_and_add_Match function works. This function adds footballers to linked list by sorted . After that worksOperands function works then exactly first 5 commands easily works for printing after that argv[3] opens and other commands works. But for other commands findFootballer function works and according to it's return , that footballer's informations are printed.For 7. Commands when linkedlist was creating , it was sorted so there is nothing to do except for print informations but for 8. commands firstly findFootballer function works and that footballer's reverseGoals function works. ReverseGoals function does footballer's goals reversed. When these function works argv[3] fiils.