**CS 114 Assignment 10**

**Topic: Hashing (4 points)**

**For each task, submit the source code with detail comments (no hardcopy).**

1. **1 point**

**Use HashMapDemo.java as a guideline to write a main java program to read input records from inventory.txt to create the hash table. Then allow user to enter key string from keyboard to remove the record from the hash table. Display not found if the key is not exists otherwise display removed message.**

**Java HashMap is imported from java.util.HashMap library.**

1. **2 point**

**Use UserManagement.java, user.java and users.java to write StaffManagement.java, StaffEmployee.java to load records from Staff.java**

**and adds each record to the HashMap table use SSN as key and StaffMemebr record as element (**HashMap<String, StaffMember>()). **Then prompts for interactive searches and finally print all StaffEmployee information for this record.**

1. **1 points**

**Modify the EmailGUI.java, EmailGUIPanel.java and EmailFieldPanel.java**

**to allow user to enter four records from GUI Panel to create hash table.**

**Then allow user to enter the key on search field to perform search on the hash table by push hash search button from the panel. Display found or not found on the panel.**