**CS 114 Assignment 3**

**Topic: Array List (4 points)**

**For each task, submit the source code with detail comments, test data and output result electronically (no hardcopy). Submit your programs only.**

1. **2 points**

**Use Alist.java & List.java provided, write a java main program to**

1. **Append integer array int [] a = {11,4,15,20}**

**to a Integer AList object.**

1. **Insert each element from int [] b = {9,3,7,22,13} before the 3rd position of above AList.**
2. **Print the list with its length.**
3. **After complete (iii), allow user to enter number from**

**console to remove number from the Alist if the number is on the AList else display “not find”. Continue the process until either the Alist is empty or terminate by user. Print the list.**

**(iV) Allow user to input more number from console and**

**insert the number in the beginning of AList until user**

**terminate or maximum size reached. Print the AList.**

1. **2 points**

**For this assignment, refer to the StaffMember class hierarchy**

**Diagram on the power point slide, write main program to perform**

**following tasks. (All Staff, StaffMemeber, Executive, Hourly and**

**Volunteer class files are provided). Use java.util.ArrayList class**

1. **Print their employee information with their employment type and their pay of all staff members from Staff class.**
2. **Accept name from keyboard.**
3. **If the name was found, delete the record from employeelist. If not, display “not found” perform (e) step. Executive record is not allowed to delete.**
4. **Print the confirmation after the deletion.**
5. **Accept the another name until terminated by user**

**or the list is empty.**

1. **Accept name from keyboard to allow user to modify the staff member Address if it match the record on the list.**
2. **Continue (a) until terminate by user.**
3. **Print the final list with their object type and pay amount.**