



Application Programming - Exam Paper

Duration: 60 minutes / Mark: 25

You are required to use HashTable class to write a program named Contact Manager. The program allows you to enter contact information about a person including his or her name and phone number. Contact Manager is a menu-based program with options as following:

- 1. Add new contact
 - 2. Find a contact by name
 - 3. Display contacts
 - 4. Exit
- ✓ Implement option 1 to add contact into a HashTable object. It should ask first to enter person's information details including 'Name' and 'Phone'. You must write a dedicated class named **Contact** to keep track of the contact.
 - ✓ Implement option 2 to find a telephone number of a person by name and display it. A message "Not found" should be displayed in the case the telephone number is not found.
 - ✓ Implement option 3 to display all the contacts in the address book as Figure 1.
 - ✓ Exit option should terminate the application.

Address Book	
Contact Name	Phone number
TrungDH	0904818238
TuanNM	0904949494

Figure 1. The Address Book

Marking:	
1.0	Creating Contact class(constructors, set/get methods)
5.0	Implementing Add telephone number function
6.0	Implementing Display function
7.0	Implementing find telephone number function
5.0	Main method(creating objects, create menu, calling add, display, save methods)
1.0	Style programming(class name, method and variable name)
25	Total Marks