Write a program that handles an address book program, to process the following functions

- (1) First, write a class called PhoneDirectory. Add a first name, last name and phone number entry as a private.
- (2) The main program uses a simple text-based interface to give the user access to the directory. In a while loop, the program presents the user with a menu of options:
- 1. Add an entry to the directory
- 2. Look up a phone number
- 3. Look up by first name
- 4. Delete an entry from the directory
- 5. List All entries in phone directory
- 6. Exit form this program
- (3) Delete an entry by first name.
- (4) List the directory in alphabetical order by first name.
- (5) Use at least 3 sorting techniques for points 3 & 4, to perform time analysis on these different algorithms.
- (6) Lookup an entry by first name.
- (7) Lookup an entry by phone number.