Classes :

Parent - Contact

- Attributes: protected String name, protected String contact number, createdAt(returns the date-time (local time) in which the object of Contact was created)

-Method : abstract verifier - tests if phone number is valid

-Constructor : Contact (String name, String Contact Number)

toString Method -

Child – Organization

- Inherited Attributes: name, contact number,

- Attributes : private String website

- Constructor : Organization super(name, contact number) + String Website

Child - Person

- Inherited Attributes : name, contact number,

- Attributes : private String email - private D.O.B(created as a date object import Date Class).

-Constructor : Person super(name, contact number) + String email + Date D.O.B (local date).

Application Class : - Main Method (import file Reader Class and Buffer Reader Class)

Menu

try (Reads input from contact list similar to a phone into java app if the object file exists. ) catch if no file exists

ArrayList<> : created objects will be created using Person or Organization class, then added to ArrayList

Methods: add, list, count, info, delete, search, exit - implement with a do-while

add - create and add a contact

list -

count - displays the amount of contacts in the list

info - display HashMap List - user inputs id and specified object with matching object ID will be returned

delete – display HashMap List – user inputs id and specified object ID will be removed from the HashMap

search -

exit – menu is exited and closed – the current ArrayList wil be written to the file and the program will finish execution

File writing and reading will be completed in phase 2 of the project.