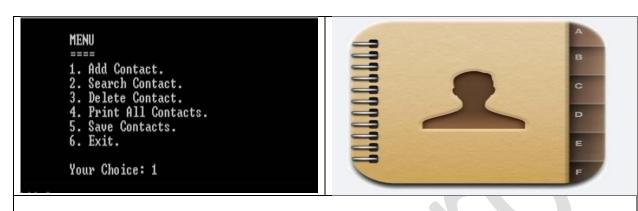
CREATIVE PROBLEM SOLVING

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Phone Book Application

CONCEPTS: Binary Search Tree, String Library

LEVEL: Medium

Our Smart Phones contains Phonebook that stores list of our contacts. Along with storage it provides functionalities like Search based on first name and last name. When we buy a new phone, there are features like import and export of entire phonebook. This problem is about implementing the engine part of such application.

PROBLEM STATEMENT

Write a menu driven program that provides features shown in menu above. Search needs to be provided based on prefix match of first name. You should use Binary Search Tree for storing the information for every contact that consists of FirstName, LastName, MobileNumber.

Add Contact – Asks user for Three fields and adds it to the BST.

Search Contact – Takes First few characters of Contact's First Name and lists all the details about matching contacts.

Delete - Deletes the contact.

Print All – Prints SR, FirstName, LastName, Mobile information in tabular form.

Save Contacts – Takes a file name where all the contacts are exported and saved.

Exit – Exits the program.