

ASSIGNMENT NO.1

NAME: Payal Bhagvan Charvande

CLASS: S.Y. **DIV:** IT A

PRN NO: 125B2F002

A)

```
#include <iostream>
#include <string>
using namespace std;

struct Contact {
    string name;
    string phoneNumber;
    string email;
};

// Linear search in array of contacts

int linearSearch(Contact phoneBook[], int size, const string& searchName) {
    for (int i = 0; i < size; i++) {
        if (phoneBook[i].name == searchName) {
            return i;
        }
    }
    return -1;
}

int main() {
    // Array of contacts, fixed size 3
    Contact phoneBook[3] = {
        {"Payal", "123-456-7890", "payal@example.com"},
```

```

        {"Geeta", "234-567-8901", "geeta@example.com"},  

        {"Shruti", "345-678-9012", "shruti@example.com"}  

    };  

    string searchName;  

    cout << "Enter the contact name (no spaces): ";  

    cin >> searchName;  
  

    int size = 3; // Number of contacts  

    int index = linearSearch(phoneBook, size, searchName);  
  

    if (index != -1) {  

        cout << "\nContact Found:\n";  

        cout << "Name: " << phoneBook[index].name << endl;  

        cout << "Phone: " << phoneBook[index].phoneNumber << endl;  

        cout << "Email: " << phoneBook[index].email << endl;  

    } else {  

        cout << "\nContact not found." << endl;  

    }  

    return 0;  

}

```

OUTPUT:

```

Enter the contact name : Payal

Contact Found:
Name: Payal
Phone: 123-456-7890
Email: paypal@example.com

```