**AIMEN NADEEM**

**TASK 2**

This program is a Contact Management System implemented in C++. It allows users to manage a list of contacts through a console-based interface. The system supports three main operations: adding a new contact, deleting an existing contact by its ID, and viewing all stored contacts. The contacts are stored in an array with a maximum capacity defined by max\_entries (set to 100). Each contact has an ID, a name, and a phone number. The program provides a menu-driven interface where users can select an operation by entering the corresponding number. The user can add contacts by providing a name and phone number, delete contacts by specifying the contact ID, and view all contacts with their details. The loop continues to run until the user chooses to exit the program by selecting the exit option from the menu.

**PROGRAM:**

#include<iostream>

using namespace std;

const int max\_entries = 100;

class CONTACT

{

public:

int id;

string name;

string phonenumber;

public:

CONTACT() {

id = -1;

}

};

class contactmanagementsystem

{

private:

CONTACT contacts[max\_entries];

int contactcount;

public:

contactmanagementsystem()

{

contactcount = 0;

}

void addcontacts()

{

if (contactcount < max\_entries)

{

CONTACT contact;

contact.id = contactcount + 1;

cout << "ENTER NAME OF CONTACT:";

cin.ignore();

getline(cin, contact.name);

cout << "ENTER CONTACT PHONENUMBER:";

getline(cin, contact.phonenumber);

contacts[contactcount++] = contact;

}

}

void viewcontacts()

{

cout << "CONTACTS" << endl;

for (int i = 0; i < contactcount; ++i)

{

cout << "ID OF CONTACT IS:" << contacts[i].id << endl;

cout << "NAME OF CONTACT IS:" << contacts[i].name << endl;

cout << "PHONENUMBER OF CONTACT IS:" << contacts[i].phonenumber << endl;

}

}

void deletecontacts() {

int id;

cout << "ENTER ID OF CONTACT TO DELETE: ";

cin >> id;

int index = -1;

for (int i = 0; i < contactcount; ++i) {

if (contacts[i].id == id) {

index = i;

}

}

--contactcount;

cout << "CONTACT WITH ID " << id << " DELETED SUCCESSFULLY." << endl;

}

};

int main()

{

contactmanagementsystem cms;

int choice = 0;

do

{

cout << "CONTACT MANAGEMENT SYSTEM" << endl;

cout << "1.ADD CONTACT" << endl;

cout << "2.DELTE CONTACT" << endl;

cout << "3.VIEW CONTACT" << endl;

cout << "enter choice" << endl;

cin >> choice;

switch (choice)

{

case 1:

cms.addcontacts();

break;

case 2:

cms.deletecontacts();

break;

case 3:

cms.viewcontacts();

case 4:

cout << "EXITING..." << endl;

break;

default:

cout << "INVALID CHOICE PLZ ENTER CORRECT CHOICE" << endl;

}

} while (choice != 4);

return 0;

}

**OUTPUT:**







