**ASSIGNMENT 2 OOPS**

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**PROGRAM:**

**#include <iostream>**

**#include <string>**

**using namespace std;**

**class Employee {**

**string name;**

**int employeeID;**

**string dept;**

**string doj;**

**string address;**

**string tele\_number;**

**static int employeeCount; // Static member**

**public:**

**// Default constructor**

**Employee() {**

**name = "PQR";**

**employeeID = 0;**

**dept = "PQR";**

**doj = "PQR";**

**address = "PQR";**

**tele\_number = "PQR";**

**employeeCount++;**

**}**

**// Parameterized constructor**

**Employee(string nm, int ID, string dept1, string doj1, string contactAddress, string phoneNumber) {**

**name = nm;**

**employeeID = ID;**

**dept = dept1;**

**doj = doj1;**

**address = contactAddress;**

**tele\_number = phoneNumber;**

**employeeCount++;**

**}**

**// Destructor**

**~Employee() {**

**employeeCount--;**

**}**

**// Inline title display**

**inline void title() const {**

**cout << "\n===== Employee Information System =====\n";**

**}**

**// Static method to return total employees**

**static int getEmployeeCount() {**

**return employeeCount;**

**}**

**// Accept data**

**void accept() {**

**cout << "\n\tEnter name: ";**

**cin >> name;**

**cout << "\n\tEnter employee ID: ";**

**cin >> employeeID;**

**cout << "\n\tEnter department: ";**

**cin >> dept;**

**cout << "\n\tEnter date of joining: ";**

**cin >> doj;**

**cout << "\n\tEnter address: ";**

**cin >> address;**

**cout << "\n\tEnter telephone number: ";**

**cin >> tele\_number;**

**}**

**// Display data**

**void display() const {**

**cout << "Employee Name : " << name << endl;**

**cout << "Employee ID : " << employeeID << endl;**

**cout << "Department : " << dept << endl;**

**cout << "Date of Joining : " << doj << endl;**

**cout << "Contact Address : " << address << endl;**

**cout << "Telephone Number : " << tele\_number << endl;**

**}**

**};**

**// Initialize static member**

**int Employee::employeeCount = 0;**

**// Main function**

**int main() {**

**int n;**

**cout << "Enter number of employees: ";**

**cin >> n;**

**cin.ignore(); // clear newline**

**// Corrected: Declare pointer variable empArr for employee array**

**Employee\* ptr = new Employee[n];**

**// Accept employee info**

**for (int i = 0; i < n; ++i) {**

**cout << "\n--- Enter details for Employee " << i + 1 << " ---\n";**

**ptr->[i].accept();**

**}**

**// Display employee info**

**for (int i = 0; i < n; ++i) {**

**empArr[i].title();**

**empArr[i].display();**

**}**

**cout << "\nTotal number of employees: " << Employee::getEmployeeCount() << endl;**

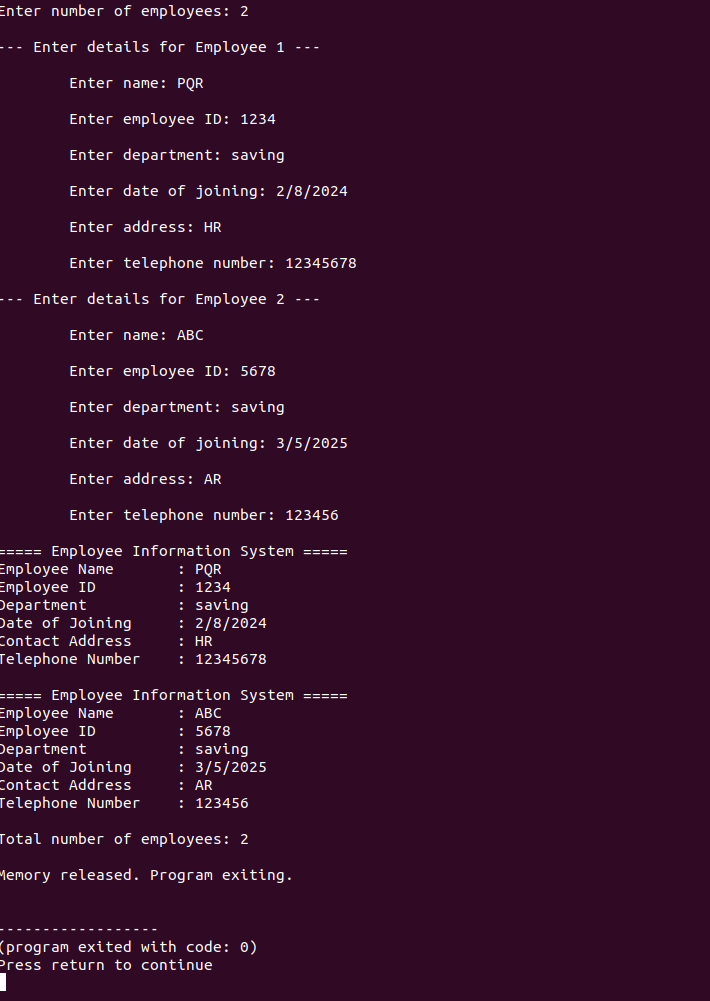
**// Delete allocated memory**

**delete[] empArr;**

**cout << "\nMemory released. Program exiting.\n";**

**return 0;**

**}**

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