

OOP Assignment 2

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Batch :- A

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// Name: Prince Kailash Vyas
// PRN : B24CE1062
// Assignment No. 2
// Employee Information System
// Develop a program in C++ to create a database of an employee's
information
// system containing the following fields: Name, employee ID, Department, Date
// of Joining, Contact address, Telephone number etc. Construct the database
// with suitable member functions to accept and print employee details. Make
use
// of constructor types, destructor, static members, inline function and
dynamic
// memory allocation using operators-new and delete.
#include <iostream>
#include <string>
using namespace std;

class Employee {
    string nm;
    int id;
    int num;
    int dy, mt, yr;
    string adr;

public:
    inline int welc() {
        cout << "\n\n\n Welcome to Employee Management System!!\n" << endl;
        return 0;
    };

    Employee();
    Employee(Employee &C);
    Employee(string N, string AD, int i, int n, int d, int m, int y);
    Employee(bool accept_input);
    ~Employee();

    static int cnt;

    int show();
};

int Employee::cnt;
```

```

Employee::Employee(Employee &C) {
    nm = C.nm;
    id = C.id;
    num = C.num;
    dy = C.dy;
    mt = C.mt;
    yr = C.yr;
    adr = C.adr;
};

Employee::Employee(string N, string AD, int i, int n, int d, int m, int y) {
    nm = N;
    id = i;
    num = n;
    dy = d;
    mt = m;
    yr = y;
    adr = AD;
};

Employee::Employee() {
    nm = "Error";
    id = 0;
    num = 0;
    dy = 0;
    mt = 0;
    yr = 0;
    adr = "Error";
};

Employee::Employee(bool accept_input) {
    cout << "Enter Employee Name: ";
    cin >> nm;
    cout << "Enter Employee ID: ";
    cin >> id;
    cout << "Enter Employee Number: ";
    cin >> num;
    cout << "Enter Employee Address: ";
    cin >> adr;
    cout << "Enter Joining date in format (DD MM YY): ";
    cin >> dy >> mt >> yr;
    cnt++;
}

Employee::~~Employee() {
    cout << "Goodbye !!!!!\n" << nm << endl;
}

```

```

int Employee::show() {
    cnt++;
    cout << "Employee Name is: " << nm << endl;
    cout << "Employee ID is: " << id << endl;
    cout << "Employee Number is: " << num << endl;
    cout << "Employee Address is: " << adr << endl;
    cout << "Employee Joining Date is: " << dy << "/" << mt << "/" << yr <<
endl;
    cout << "Number of employees (displayed) is: " << cnt << endl;
    return 0;
};

int main() {
    Employee *E1 = new Employee(true);
    Employee E2;
    Employee E3(*E1);

    E1->welc();
    E1->show();

    E2.welc();
    E2.show();

    E3.welc();
    E3.show();

    delete E1;
    return 0;
}

```

}

```
Enter Employee Name:Prince
Enter Employee ID:2485
Enter Employee Number:213
Enter Employee Address:pune
Enter Joining date in format(DDMMYY):06/09/25
```

Welcome to Employee Management System!!

```
Employee Name is:Prince
Employee ID is:2485
Employee Number is:213
Employee Address is:pune
Employee Joining Date is:6/0/0
Number of employees (displayed) is:1
```

Welcome to Employee Management System!!

```
Employee Name is>Error
Employee ID is:0
Employee Number is:0
Employee Address is>Error
Employee Joining Date is:0/0/0
Number of employees (displayed) is:2
```

Welcome to Employee Management System!!

```
Employee Name is:Prince
Employee ID is:2485
Employee Number is:213
Employee Address is:pune
Employee Joining Date is:6/0/0
Number of employees (displayed) is:3
```

Welcome to Employee Management System!!

Employee Name is:Error

Employee ID is:0

Employee Number is:0

Employee Address is:Error

Employee Joining Date is:0/0/0

Number of employees (displayed) is:4

Goodbye !!!!!

Error

Goodbye !!!!!

Prince

Goodbye !!!!!

Error

Goodbye !!!!!

Prince