

OOP Assignment - 02

Employee Information System

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Division: SY - BTech-II

PRN: B24CE1118
Batch: C

CODE

```
#include<iostream>
#include<string>
using namespace std;
class Employee
{
    public:
    long long tele_no;
    string name,dept,contact_address,joining_date;
    static int id;
    static void get_id() {

        cout<<"The employee no is:"<<id<<endl;
        id++;
        cout<<"\n";
    }
    void getdata();
    inline void showdata();
    Employee() {          //Default Constructor

        cout<<"Default Constructor Block\n";
        tele_no=0;
    }
    Employee(string nm,long long tel_no,string doj,string dpt,string contact_add)
{
    //Parameterized Constructor
    cout<<"Parameterized Constructor Block\n";
    name=nm;
    tele_no=tel_no;
    joining_date=doj;
    dept=dpt;
    contact_address=contact_add;
```

```

    }
    Employee(Employee &emp) {
        cout<<"Copy Constructor Block\n";
        name=emp.name;
        tele_no=emp.tele_no;
        joining_date=emp.joining_date;
        dept=emp.dept;
        contact_address=emp.contact_address;
    }

~Employee() {
    cout<<"Destructor called for Employee: "<<name<<endl;
}

};
int Employee::id=1; //Static data member
void Employee::getdata()
{
    cout<<"Enter Name: ";
    cin>>name;
    cout<<"Enter Telephone Number: +91";
    cin>>tele_no;
    cout<<"Enter Contact Address: ";
    cin>>contact_address;
    cout<<"Enter the Department: ";
    cin>>dept;
    cout<<"Enter Date of Joining: ";
    cin>>joining_date;
    cout<<"\n";
}

inline void Employee::showdata()    //Inline Function
{
    cout<<"Employee Name: "<<name<<endl;
    cout<<"Employee Telephone Number: +91"<<tele_no<<endl;
    cout<<"Employee Contact Address: "<<contact_address<<endl;
    cout<<"Employee Department: "<<dept<<endl;
    cout<<"Employee Date of Joining: "<<joining_date<<endl;
    cout<<"\n";
}

int main()
{

```

```

Employee emp1;
emp1.getdata();
Employee::get_id();    //Static Member Function
emp1.showdata();
cout<<"\n";
Employee emp2("Om",3486758265,"07/08/2021","Google","California");
Employee::get_id();    //Static Member Function
emp2.showdata();
cout<<"\n";
Employee emp3(emp2);
Employee::get_id();    //Static Member Function
emp3.showdata();
cout<<"\n";
Employee *ptr = new Employee("Kaivalya", 8374657836, "31/03/2023",
"Microsoft", "Yerwada");
//new and delete operator
ptr->showdata();
delete ptr;
return 0;
}

```

OUTPUT

Default Constructor Block

Enter Name: Aagam

Enter Telephone Number: +919384856735

Enter Contact Address: Wagholi

Enter the Department: AIML

Enter Date of Joining: 08/09/2024

The employee no is:1

Employee Name: Aagam

Employee Telephone Number: +919384856735

Employee Contact Address: Wagholi

Employee Department: AIML

Employee Date of Joining: 08/09/2024

Parameterized Constructor Block

The employee no is:2

Employee Name: Om

Employee Telephone Number: +913486758265

Employee Contact Address: California

Employee Department: Google

Employee Date of Joining: 07/08/2021

Copy Constructor Block

The employee no is:3

Employee Name: Om

Employee Telephone Number: +913486758265

Employee Contact Address: California

Employee Department: Google

Employee Date of Joining: 07/08/2021

Parameterized Constructor Block

Employee Name: Kaivalya

Employee Telephone Number: +918374657836

Employee Contact Address: Yerwada

Employee Department: Microsoft

Employee Date of Joining: 31/03/2023

Destructor called for Employee: Kaivalya

Destructor called for Employee: Om

Destructor called for Employee: Om

Destructor called for Employee: Aagam

(program exited with code: 0)

Press return to continue