```java
package A1;

/**
 *
 * @author Lakshmi Priya
 */

import java.time.Year;
import java.util.Scanner;

class Day
{
    int dd,mm,yy;
}

class Employee
{
    private String id,name,desgn;
    private Day dob=new Day();
    Day doj=new Day();
    private float
basic,da,hra,lic,ded,pf,hours,grossSal,netSal,hwage=0;
    void input()
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter Employee details: ");
        System.out.println("Employee Id : ");
        id=in.nextLine();
        System.out.println("Name        : ");
        name=in.nextLine();
        System.out.println("Designation : ");
        desgn=in.nextLine();
        System.out.println("Enter DOB   : ");
        System.out.println("dd : ");
        dob.dd=in.nextInt();
        System.out.println("mm : ");
        dob.mm=in.nextInt();
        System.out.println("yy : ");
        dob.yy=in.nextInt();
        System.out.println("Enter DOJ    : ");
        System.out.println("dd : ");
        doj.dd=in.nextInt();
        System.out.println("mm : ");
        doj.mm=in.nextInt();
        System.out.println("yy : ");
        doj.yy=in.nextInt();
        if (desgn.equals("Intern")!=true){
            System.out.println("Basic Pay   : ");
            basic=in.nextFloat();
        }
        System.out.println("LIC amount  : ");
        lic=in.nextFloat();
        if (desgn.equals("Manager")!=true &&
desgn.equals("Others")!=true){
            System.out.println("Hours worked: ");
            hours=in.nextFloat();
```

```java
        }
        if (desgn.equals("Intern")==true){
            System.out.println("Hourly wage: ");
            hwage=in.nextFloat();
        }

        switch(desgn)
        {
            case "Intern":
                da=(float) 2000; hra=(float) 1000; pf=(float) 500;
                grossSal=hours*hwage+da+hra;
                ded=lic+pf;
                netSal=grossSal-ded;
                break;
            case "Manager":
                da=(float) (0.40*basic); hra=(float) (0.10*basic);
pf=(float) (0.08*basic);
                grossSal=basic+da+hra;
                ded=lic+pf;
                netSal=grossSal-ded;
                break;
            case "Others":
                da=(float) (0.30*basic); hra=(float) (0.10*basic);
pf=(float) (0.08*basic);
                grossSal=basic+da+hra;
                ded=lic+pf;
                netSal=grossSal-ded;
                break;
        }
    }
    Employee()
    {
        input();
    }

    static int create(Employee emp[]){
        int n,i;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter number of records: ");
        n=in.nextInt();
        for (i=0;i<n;i++)
            emp[i]=new Employee();
        return n;
    }


    static int searchRec(Employee emp, String id)
    {
        if (id.equals(emp.id)==true){
            return 1;
        }
        return -1;
    }

    static void payslip(Employee emp[],String id, int n)
    {
```

```java
        int i,index;
        for (i=0;i<n;i++){
            if (id.equals(emp[i].id)==true){
                Employee.payslipDisplay(emp[i]);
                break;
            }
        }

    }

    static void promote(Employee emp[], String id,int n){
        Scanner in=new Scanner(System.in);
        int i,index=0;
        for (i=0;i<n;i++){
            index=Employee.searchRec(emp[i],id);
            if (index==1)
                break;
        }

        if (index==1)
        {
            if(emp[i].desgn.equals("Manager")!=true){
                //Date curr=new Date();
                int year = Year.now().getValue();
                //System.out.println(" "+year+"    "+emp[i].doj.yy);
                if ((year-emp[i].doj.yy)<1)
                    System.out.println("No promotion!");
                else if ((year-emp[i].doj.yy)>10){
                    emp[i].desgn="Manager";
                    System.out.println("Basic Pay   : ");
                    emp[i].basic=in.nextFloat();
                }
                else {
                    emp[i].desgn="Others";
                    System.out.println("Basic Pay   : ");
                    emp[i].basic=in.nextFloat();
                }
                display(emp[i]);
            }
            else
                System.out.println("Manager cannot be promoted!");
        }
        else{
                System.out.println("Record not found!");
                return;
            }

    }


    static void display(Employee emp){
        System.out.println("        EMPLOYEE DETAILS");
        System.out.println("        ***************");
        System.out.println("Employee Id : "+emp.id);
        System.out.println("Name         : "+emp.name);
        System.out.println("Designation : "+emp.desgn);
```

```java
            System.out.println("DOB            :
"+emp.dob.dd+"/"+emp.dob.mm+"/"+emp.dob.yy);
            System.out.println("DOJ            :
"+emp.doj.dd+"/"+emp.doj.mm+"/"+emp.doj.yy);
            if (emp.desgn.equals("Intern")!=true)
                System.out.println("Basic Pay   : "+emp.basic);
            if (emp.desgn.equals("Manager")!=true &&
emp.desgn.equals("Others")!=true)
                System.out.println("Hours worked: "+emp.hours);
            System.out.println("_____");
            System.out.println("Gross Salary: "+emp.grossSal);
            System.out.println("Deductios   : "+emp.ded);
            System.out.println("_____");
            System.out.println("Net Salary  : "+emp.netSal);
            System.out.println("_____");
    }

    static void payslipDisplay(Employee emp){
            System.out.println("      EMPLOYEE PAYROLL");
            System.out.println("      ****************");
            System.out.println("Employee Id : "+emp.id);
            System.out.println("Name           : "+emp.name);
            System.out.println("Designation : "+emp.desgn);
            System.out.println("DOB            :
"+emp.dob.dd+"/"+emp.dob.mm+"/"+emp.dob.yy);
            System.out.println("DOJ            :
"+emp.doj.dd+"/"+emp.doj.mm+"/"+emp.doj.yy);
            if (emp.desgn.equals("Intern")!=true)
                System.out.println("Basic Pay   : "+emp.basic);
            System.out.println("DA           : "+emp.da);
            System.out.println("HRA          : "+emp.hra);
            System.out.println("LIC          : "+emp.lic);
            System.out.println("PF           : "+emp.pf);
            if(emp.desgn.equals("Manager")!=true &&
emp.desgn.equals("Others")!=true)
                System.out.println("Hours worked: "+emp.hours);
            System.out.println("_____");
            System.out.println("Gross Salary: "+emp.grossSal);
            System.out.println("Deductios   : "+emp.ded);
            System.out.println("_____");
            System.out.println("Net Salary  : "+emp.netSal);
            System.out.println("_____");
    }

}
public class MainEmployee {

    public static void main(String[] args) {

            int i,n=0,choice;
            String id;
            Scanner in=new Scanner(System.in);
            Employee emp[]=new Employee[20];

            System.out.println("Choice:\n1. Enter the employee
details\n2. Display all employee records\n3. Generate Payslip of
```

```java
particular employee\n3. Promote particular employee\n5. Exit\nEnter
choice: ");
        choice=in.nextInt();
        while(choice!=5){
            switch (choice) {
                case 1:
                    n=Employee.create(emp);
                    break;
                case 2:
                    for (i=0;i<n;i++)
                        Employee.display(emp[i]);
                    break;
                case 3:
                    System.out.println("Enter employee id to display
payslip: ");
                    id=in.nextLine();
                    id=in.nextLine();
                    Employee.payslip(emp,id,n);
                    break;
                case 4:
                    System.out.println("Enter employee id for
promotion: ");
                    id=in.nextLine();
                    id=in.nextLine();
                    Employee.promote(emp,id,n);
                    break;
                default:
                    break;
            }
            System.out.println("Choice:\n1. Enter the employee
details\n2. Display all employee records\n3. Generate Payslip of
particular employee\n4. Promote particular employee\n5. Exit\nEnter
choice: ");
            choice=in.nextInt();
        }

    }

}
```