Question 4

Develop a program to produce pay slip of a name, code and designation. Add another base class consisting of data members account number, date of joining and basic pay. The derived class consists of data members of other earning (pf, lic, tax). (Implement using interface.)

```
import java.io.*;
class emp1
{
  String name, desig;
  int code;
  void getemp1()
  {
    try
    {
      DataInputStream in=new DataInputStream(System.in);
      System.out.println("enter the employee name:");
      name=in.readLine();

      System.out.println("enter the designation:");
      desig=in.readLine();
      System.out.println("enter the employee code:");
      code=Integer.parseInt(in.readLine());
    } catch(Exception e){}
  }

  void disemp1()
  {
    System.out.println("employee name: "+name);
    System.out.println("designation: "+desig);
    System.out.println("code: "+code);
  }
}

class emp2 extends emp1
{
```

```
  int acc_no,basic_pay;
  String doj;

  void getemp2()
  {
    try
    {
      DataInputStream in=new DataInputStream(System.in);
      System.out.println("enter the account number:");
      acc_no=Integer.parseInt(in.readLine());
      System.out.println("enter the date of joining:");
      doj=in.readLine();
      System.out.println("enter the basic pay:");
      basic_pay=Integer.parseInt(in.readLine());
    } catch(Exception e){}
  }

  void disemp2()
  {
    System.out.println("account number: "+acc_no);
    System.out.println("date of joining: "+doj);
    System.out.println("basic pay: "+basic_pay);
  }
}

interface deduction
{
  static final int pf=500;
  static final int lic=700;
  static final int tax=250;

  public void getemp3();
  public void disemp3();
  public void salary();
}

class emp3 extends emp2 implements deduction
{
  int da,hra,cca;

  public void getemp3()
  {
    try
    {

      DataInputStream in=new DataInputStream(System.in);
      System.out.println("enter the da:");
      da=Integer.parseInt(in.readLine());
      System.out.println("enter the hra:");
      hra=Integer.parseInt(in.readLine());
      System.out.println("enter the cca:");
      cca=Integer.parseInt(in.readLine());
    } catch(Exception e) {}
  }
```

```
  public void disemp3()
  {
    System.out.println("da is: "+da);
    System.out.println("hra is: "+hra);
    System.out.println("cca is: "+cca);
  }

  public void salary()
  {
    int gross_sal=basic_pay+hra+da+cca;
    int deduce=pf+tax+lic;
    int net_sal=gross_sal-deduce;
    System.out.println("pf is: "+pf);
    System.out.println("lic is: "+lic);
    System.out.println("tax is: "+tax);
    System.out.println("employee gross salary: "+gross_sal);
    System.out.println("deduction is: "+deduce);
    System.out.println("employee salary: "+net_sal);
  }
}

public class emp
{
  public static void main(String args[])
  {
    emp3 t=new emp3();
    t.getemp1();
    t.getemp2();
    t.getemp3();

    System.out.println("\nEmployee details");
    t.disemp1();
    t.disemp2();
    t.disemp3();
    t.salary();
  }
}
```

OR {The below code is done using Scanner object}

```
import java.util.*;
import java.io.*;
class emp1
{
  String name, desig;
  int code;
```

```
  void getemp1()
  {
    try
    {
      Scanner in=new Scanner(System.in);
      System.out.println("enter the employee name:");
      name=in.next();

      System.out.println("enter the designation:");
      desig=in.next();
      System.out.println("enter the employee code:");
      code=in.nextInt();
    } catch(Exception e){}
  }

  void disemp1()
  {
    System.out.println("employee name: "+name);
    System.out.println("designation: "+desig);
    System.out.println("code: "+code);
  }
}

class emp2 extends emp1
{
  int acc_no,basic_pay;
  String doj;

  void getemp2()
  {
    try
    {
      Scanner ob = new Scanner(System.in);
      System.out.println("enter the account number:");
      acc_no=ob.nextInt();
      System.out.println("enter the date of joining:");
      doj=ob.next();
      System.out.println("enter the basic pay:");
      basic_pay=ob.nextInt();
    } catch(Exception e){}
  }

  void disemp2()
  {
    System.out.println("account number: "+acc_no);
    System.out.println("date of joining: "+doj);
    System.out.println("basic pay: "+basic_pay);
  }
}

interface deduction
{
  static final int pf=500;
  static final int lic=700;
```

```
  static final int tax=250;

  public void getemp3();
  public void disemp3();
  public void salary();
}

class emp3 extends emp2 implements deduction
{
  int da,hra,cca;

  public void getemp3()
  {
    try
    {

      Scanner in=new Scanner(System.in);
      System.out.println("enter the da:");
      da=in.nextInt();
      System.out.println("enter the hra:");
      hra=in.nextInt();
      System.out.println("enter the cca:");
      cca=in.nextInt();
    } catch(Exception e) {}
  }

  public void disemp3()
  {
    System.out.println("da is: "+da);
    System.out.println("hra is: "+hra);
    System.out.println("cca is: "+cca);
  }

  public void salary()
  {
    int gross_sal=basic_pay+hra+da+cca;
    int deduce=pf+tax+lic;
    int net_sal=gross_sal-deduce;
    System.out.println("pf is: "+pf);
    System.out.println("lic is: "+lic);
    System.out.println("tax is: "+tax);
    System.out.println("employee gross salary: "+gross_sal);
    System.out.println("deduction is: "+deduce);
    System.out.println("employee salary: "+net_sal);
  }
}

public class emp
{
  public static void main(String args[])
  {
    emp3 t=new emp3();
    t.getemp1();
    t.getemp2();
```

```
    t.getemp3();

    System.out.println("\nEmployee details");
    t.disemp1();
    t.disemp2();
    t.disemp3();
    t.salary();
  }
}
```

Output:

```
enter the employee name:
Oliver
enter the designation:
Sales
enter the employee code:
120
enter the account number:
1202
enter the date of joining:
16/03
enter the basic pay:
52000
enter the da:
3200
enter the hra:
1200
enter the cca:
5200

Employee details
employee name: Oliver
designation: Sales
code: 120
account number: 1202
date of joining: 16/03
basic pay: 52000
da is: 3200
hra is: 1200
cca is: 5200
pf is: 500
lic is: 700
tax is: 250
employee gross salary: 61600
deduction is: 1450
employee salary: 60150
```