EXP NO: PAYSLIP GENERATION

DATE:

AIM:

To develop a java console application to find the gross and net salary using inheritage.

REQUIREMENT:

Develop a java application to create a package payroll and to create the class as employee with emp_name,emp_id,address,mail_id,mobile_no as data members.

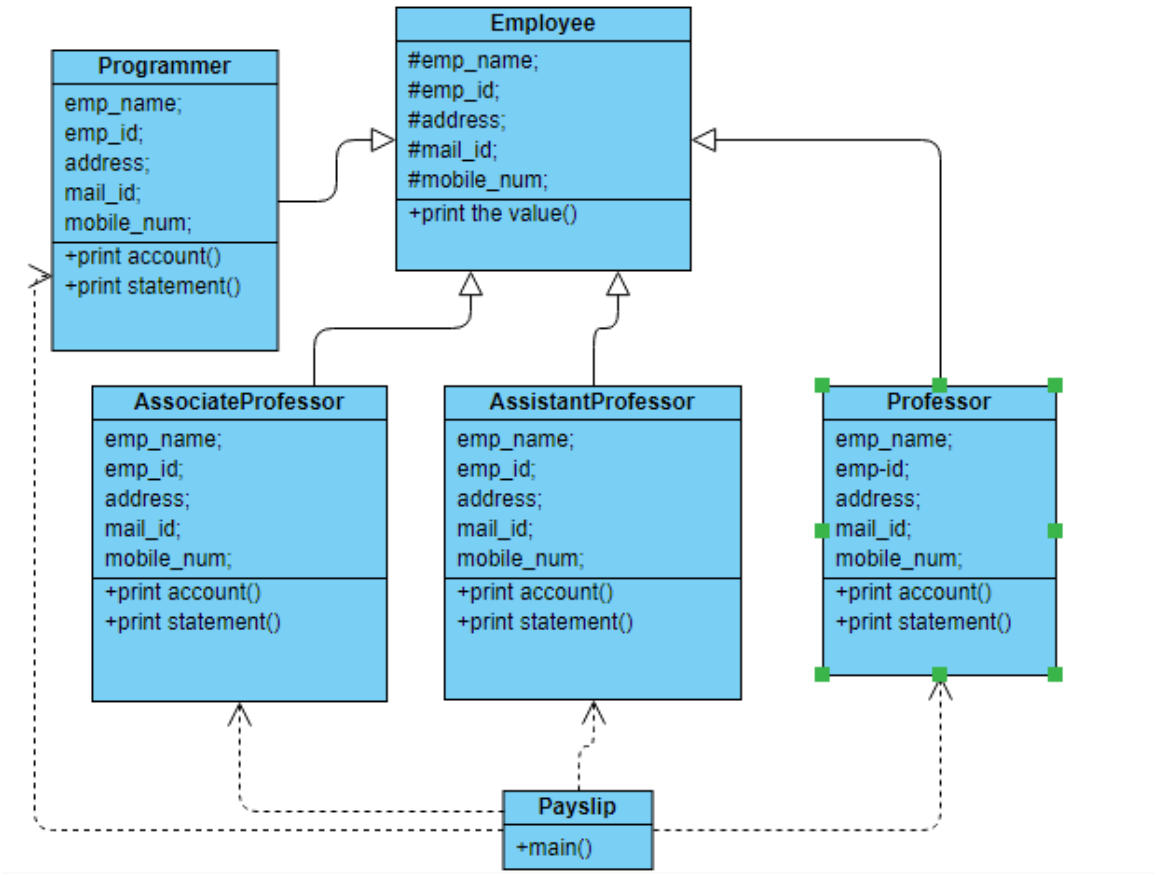
Inherit the classes as programmer,assistantprofessor,associativeprofessor,professor.add the basic pay as data member for these classes.

create the class calculation to print the DA,HRA,PF,Staff club fund,gross salary and net salary for the inheritage classes.

ALGORITHM:

1. Declare a package payroll.
2. Declare the class as employee.
3. Declare a constructor and add the data members.
4. Inherit the classes from the super class and add the data members as basic pay.
5. Calculate the gross salary and net salary on the inheritage.
6. Display the result.

CLASS DIAGRAM:



PROGRAM:

```
package payroll;


public class Employee {

	protected String emp_name;

	protected long emp_id;

	protected String address;

	protected String mail_id;

	protected long mobile_no;


	public Employee()

	{
```

```
            emp_name="noname";
            emp_id=21221;
            address="not given";
            mail_id="not given";
            mobile_no=87005544771;
      }
      public Employee(String name,long id,String add,String mail,long mobile)
      {
            emp_name=name;
            emp_id=id;
            address=add;
            mail_id=mail;
            mobile_no=mobile;
      }
      public void printEmployee()
      {
            System.out.println("Name:" +emp_name);
            System.out.println("emp_id:" +emp_id);
            System.out.println("Address:" +address);
            System.out.println("EMail:" +mail_id);
            System.out.println("Mobile:" +mobile_no);
      }
}
package payroll;

public class Professor extends Employee{
private double Basic_Pay;
```

```
	public Professor()
	{
		Basic_Pay=0;
	}
	public Professor(String name,long id,String add,String mail,long
mobile,double bp)
	{
		super(name,id,add,mail,mobile);
		Basic_Pay=bp;
	}
	public void printEmployee()
	{
		super.printEmployee();
		double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
		DA=0.97*Basic_Pay;
		HRA=0.1*Basic_Pay;
		PF=0.12*Basic_Pay;
		STAFFCLUBFUND=0.1*Basic_Pay;
		DEDUCTION=PF+STAFFCLUBFUND;
		GROSSSALARY=Basic_Pay+DA+HRA;
		NETSALARY=GROSSSALARY-DEDUCTION;
		System.out.println("Basic_Pay:"+Basic_Pay);
		System.out.println("GROSSSALARY:"+GROSSSALARY);
		System.out.println("NETSALARY:"+NETSALARY);
	}
}
package payroll;


public class Programmer extends Employee {
```

```
private double Basic_Pay;


	public Programmer()
	{
		Basic_Pay=0;
	}
	public Programmer (String name,long id,String add,String mail,long
mobile,double bp)
	{
		super(name,id,add,mail,mobile);
		Basic_Pay=bp;
	}
	public void printEmployee()
	{
		super.printEmployee();
		double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;
		DA=0.97*Basic_Pay;
		HRA=0.1*Basic_Pay;
		PF=0.12*Basic_Pay;
		STAFFCLUBFUND=0.1*Basic_Pay;
		DEDUCTION=PF+STAFFCLUBFUND;
		GROSSSALARY=Basic_Pay+DA+HRA;
		NETSALARY=GROSSSALARY-DEDUCTION;
		System.out.println("Basic_Pay:"+Basic_Pay);
		System.out.println("GROSSSALARY:"+GROSSSALARY);
		System.out.println("NETSALARY:"+NETSALARY);
	}
}
package payroll;
```

```
public class AssistantProffessor extends Employee {

	private double Basic_Pay;


	public AssistantProffessor()

	{

		Basic_Pay=0;

	}

	public AssistantProffessor(String name,long id,String add,String
mail,long mobile,double bp)

	{

		super(name,id,add,mail,mobile);

		Basic_Pay=bp;

	}

	public void printEmployee()

	{

		super.printEmployee();

		double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;

		DA=0.97*Basic_Pay;

		HRA=0.1*Basic_Pay;

		PF=0.12*Basic_Pay;

		STAFFCLUBFUND=0.1*Basic_Pay;

		DEDUCTION=PF+STAFFCLUBFUND;

		GROSSSALARY=Basic_Pay+DA+HRA;

		NETSALARY=GROSSSALARY-DEDUCTION;

		System.out.println("Basic_Pay:"+Basic_Pay);

		System.out.println("GROSSSALARY:"+GROSSSALARY);

		System.out.println("NETSALARY:"+NETSALARY);

	}
```

```
}
```

```
package payroll;


public class AssociateProfessor extends Employee {

private double Basic_Pay;


	public AssociateProfessor()

	{

		Basic_Pay=0;

	}

	public AssociateProfessor(String name,long id,String add,String
mail,long mobile,double bp)

	{

		super(name,id,add,mail,mobile);

		Basic_Pay=bp;

	}

	public void printEmployee()

	{

		super.printEmployee();

		double DA,HRA,PF,STAFFCLUBFUND,GROSSSALARY,NETSALARY,DEDUCTION;

		DA=0.97*Basic_Pay;

		HRA=0.1*Basic_Pay;

		PF=0.12*Basic_Pay;

		STAFFCLUBFUND=0.1*Basic_Pay;

		DEDUCTION=PF+STAFFCLUBFUND;

		GROSSSALARY=Basic_Pay+DA+HRA;

		NETSALARY=GROSSSALARY-DEDUCTION;

		System.out.println("Basic_Pay:"+Basic_Pay);

		System.out.println("GROSSSALARY:"+GROSSSALARY);
```

```
            System.out.println("NETSALARY:"+NETSALARY);
      }
}
package payroll;


public class Payslip {


      public static void main(String[] args) {
            // TODO Auto-generated method stub
            Employee emp1;
            AssistantProffessor asp1;
            AssociateProfessor ap1;
            Professor p1;
            Programmer pro1;


                  emp1=new
Employee("Atchaya",21221,"Chennai","account@gmail.com",80000000001);
                  asp1=new
AssistantProffessor("kaarthikeyan",21222,"Chennai","account@gmail.com",900000
00001,500000.00);
                  ap1=new
AssociateProfessor("Latchika",21223,"Chennai","account@gmail.com",78000000001
,20000.00);
                  p1=new
Professor("Raja",21224,"Chennai","account@gmail.com",97000000001,30000.00);
                  pro1=new
Programmer("swetha",21225,"Chennai","account@gmail.com",75000000001,40000.00)
;


                  emp1.printEmployee();
                  asp1.printEmployee();
                  ap1.printEmployee();
```

```
                p1.printEmployee();
                pro1.printEmployee();
        }

}
```

OUTPUT:

```
Name:Atchaya
emp_id:21221
Address:Chennai
EMail:account@gmail.com
Mobile:8000000000
Name:kaarthikeyan
emp_id:21222
Address:Chennai
EMail:account@gmail.com
Mobile:9000000000
Basic_Pay:500000.0
GROSSSALARY:1035000.0
NETSALARY:925000.0
Name:Latchika
emp_id:21223
Address:Chennai
EMail:account@gmail.com
Mobile:7800000000
Basic_Pay:20000.0
GROSSSALARY:41400.0
NETSALARY:37000.0
Name:Raja
```

```
emp_id:21224

Address:Chennai

EMail:account@gmail.com

Mobile:9700000000

Basic_Pay:30000.0

GROSSSALARY:62100.0

NETSALARY:55500.0

Name:swetha

emp_id:21225

Address:Chennai

EMail:account@gmail.com

Mobile:7500000000

Basic_Pay:40000.0

GROSSSALARY:82800.0

NETSALARY:74000.0
```

RESULT:

Thus the java application for generation of pay slip is developed by using inheritage classes.