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|  | **JAVA APPLICATION FOR PAYROLLSLIP** |
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**AIM:**

To create a java console application to calculate the payment statement for programmer, asst.professor , asso.professor,prof.

**REQUIREMENT :**

To create package payroll,develop a java application with Employee class with emp\_name,emp\_id,address,mail\_id,mobile\_no as member.

Inherint the class, programmer, assistant professor associate professor and professor from Employee classs.

Add basicpay(BP) as the member of all the inherited classes with 97% of BP as DA, 10% of BP as HRA, 12% of BP as PF,0.1% of BP for staff club fun.generate payslip for the employee with their GROSS and NET SALARY

**ALGORITHM :**

STEP 1: Declare a package payroll.

STEP 2: Declare the class as employee.

STEP 3: Declare a constructor and add the datamember.

STEP 4: Inherit the classes from the super class and add the data member as basicpay.

STEP 5: Calculate the gross salary and net salary based on the inheritages.

STEP 6: Display the results.

**CLASS DIAGRAM :**

**PROGRAM :**

/\*\*JAVA program to calculate Salary

\* author @AKHSHY\_GANESH

\* reg no: 212217105006

\* mail ID: akhshyganeshb@gmail.com

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package Payroll;

public class AssistantProfessor extends Employee {

private double BasicPay;

public AssistantProfessor()

{

BasicPay=0;

}

public AssistantProfessor(String n,long id,String adr,String mail,long no,double bp)

{

super (n,id,adr,mail,no);

BasicPay=bp;

}

public void AssistantProfessor()

{

super.printEmployee();

System.out.println("Basic Pay;"+BasicPay);

}

public void calculation()

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

DA=0.97\*BasicPay;

HRA=0.1\*BasicPay;

PF=0.12\*BasicPay;

STAFFCLUBFUND=0.1\*BasicPay;

DEDUCTION=PF+STAFFCLUBFUND;

GROSSSALARY=BasicPay+DA+HRA;

NETSALARY=GROSSSALARY-DEDUCTION;

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

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

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

}

}

package Payroll;

public class AssociateProfessor extends Employee {

private double BasicPay;

public AssociateProfessor()

{

BasicPay=0;

}

public AssociateProfessor(String n,long id,String adr,String mail,long no,double bp)

{

super(n,id,adr,mail,no);

BasicPay=bp;

}

public void printEmployee()

{

super.printEmployee();

System.out.println("BAsicPAy:"+BasicPay);

}

public void calculation()

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

DA=0.97\*BasicPay;

HRA=0.1\*BasicPay;

PF=0.12\*BasicPay;

STAFFCLUBFUND=0.1\*BasicPay;

DEDUCTION=PF+STAFFCLUBFUND;

GROSSSALARY=BasicPay+DA+HRA;

NETSALARY=GROSSSALARY-DEDUCTION;

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

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

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

}

}

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="no name";

emp\_id=1051;

address="unknown";

mail\_id= "unknown";

mobile\_no= 9512364;

}

public Employee(String n,long id,String adr,String mail,long no)

{

emp\_name=n;

emp\_id=id;

address=adr;

mail\_id=mail;

mobile\_no=no;

}

public void printEmployee()

{

System.out.println("Name:"+emp\_name);

System.out.println("Account:"+emp\_id);

System.out.println("Addess:"+address);

System.out.println("Email:"+mail\_id);

System.out.println("Mobile:"+mobile\_no);

}

}

package Payroll;

public class Payslip {

public static void main(String[]args) {

Employee emp;

AssistantProfessor ast;

AssociateProfessor aso;

Professor Prof;

Programmer Prog;

emp=new Employee("Akhshy",212217006,"chennai","ak@gmail.com",95245436);

ast=new AssistantProfessor("faizul",212217016,"chennai","faizul@gmail.com",945744862,32000);

aso=new AssociateProfessor("karan",212217024,"chennai","karan@gmail.com",946894135,36000);

Prof=new Professor("bairavan",212217010,"chennai","mbairavan@gmail.com",923123457,38000);

Prog=new Programmer("sanjai",212217019,"chennai","sanjai@gmail.com",974123431,42000);

System.out.println("----------------------------------------------");

emp.printEmployee();

ast.calculation();

ast.printEmployee();

aso.calculation();

aso.printEmployee();

Prof.printEmployee();

Prog.calculation();

Prog.printEmployee();

}

}

package Payroll;

public class Professor extends Employee{

private double BasicPay;

public Professor()

{

BasicPay=0;

}

public Professor(String n,long id,String adr,String mail,long no,double bp)

{

super(n,id,adr,mail,no);

BasicPay=bp;

}

public void calculation()

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

DA=0.97\*BasicPay;

HRA=0.1\*BasicPay;

PF=0.12\*BasicPay;

STAFFCLUBFUND=0.1\*BasicPay;

DEDUCTION=PF+STAFFCLUBFUND;

GROSSSALARY=BasicPay+DA+HRA;

NETSALARY=GROSSSALARY-DEDUCTION;

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

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

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

}

}

package Payroll;

public class Programmer extends Employee{

private double BasicPay;

public Programmer()

{

BasicPay=0;

}

public Programmer(String n,long id,String adr,String mail,long no,double bp)

{

super(n,id,adr,mail,no);

BasicPay=bp;

}

public void printEmployee()

{

super.printEmployee();

System.out.println("BASIC PAY:"+BasicPay);

}

public void calculation()

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

DA=0.97\*BasicPay;

HRA=0.1\*BasicPay;

PF=0.12\*BasicPay;

STAFFCLUBFUND=0.1\*BasicPay;

DEDUCTION=PF+STAFFCLUBFUND;

GROSSSALARY=BasicPay+DA+HRA;

NETSALARY=GROSSSALARY-DEDUCTION;

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

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

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

}

}

**RESULTS :**

Thus the java console application for Currency converter, Distance converter & Time converter is verifed with output.