

Ex. No.

**GENERATING PAY SLIPS FOR THE EMPLOYEES**

Date:

**Problem:**

Develop a java application with Employee class with Emp\_name, Emp\_id, Address, Mail\_id, Mobile\_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (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 fund. Generate pay slips for the employees with their gross and net salary.

**Aim:**

To develop a java application for generating pay slips for the employees with their gross and net salary.

**Algorithm:**

Step 1. Start

Step 2. Get the information about the employee – Employee name. Employee id, address, mail id and mobile number

Step 3:Using function calculate the salary

Grosssalary=(0.97f\*bpay)+(0.10f\*bpay)+(0.12f\*bpay)+(0.001f\*bpay)+bpay;

Netsalary=grosssalary-((0.12f\*bpay)+(0.001f\*bpay)

Step 4:Using switch case, get the choice (Professor, Associate Professor, Assistant Professor,Programmer) and the required function called.

Step 6:Using function calculate the salary by the input as bpay.

Step 7:Choose the employee and print the details.

Step 8:Stop.

**Program:**

```
import java.util.*;
import java.io.*;
class Employee
{
int id;
float grosssalary, netsalary,bpay;
String name, address, mail, mno;
Scanner get = new Scanner(System.in);
Employee()
{
System.out.println("Enter Name of the Employee:");
name = get.next();
System.out.println("Enter id:");
id = get.nextInt();
System.out.println("Enter Address of the Employee:");
address = get.next();
System.out.println("Enter mailid of the Employee:");
mail = get.next();
```

```

System.out.println("Enter mobile no. of the Employee:");
mno = get.next();
}
void salary()
{
grosssalary= (0.97f*bpay)+(0.10f*bpay)+(0.12f*bpay) + (0.001f*bpay)+bpay;
netsalary= grosssalary-((0.12f*bpay) + (0.001f*bpay));
}
void display()
{
System.out.println("Employee Name: "+name);
System.out.println("ID      : "+id);
System.out.println("Mail Id   : "+mail);
System.out.println("Address   : "+address);
System.out.println("Mobile No. : "+mno);
System.out.println("Gross Salary : "+grosssalary);
System.out.println("Net Salary  : "+netsalary);
}
}
class Programmer extends Employee
{
Programmer()
{
System.out.println("Enter Basic Pay:");
bpay = get.nextFloat();
salary();
}
void display()
{
System.out.println("\n =====\n Programmer\n =====\n");
super.display();
}
}
class AssistantProfessor extends Employee
{
AssistantProfessor()
{
System.out.println("Enter Basic Pay:");
bpay = get.nextFloat();
salary();
}
void display()
{
System.out.println(" =====\n Assistant Professor\n =====\n");
super.display();
}
}
class AssociateProfessor extends Employee
{
AssociateProfessor()
{

```

```

System.out.println("Enter Basic Pay:");
bpay = get.nextFloat();
salary();
}
void display()
{
System.out.println(" =====\n Associate Professor\n
===== \n");
super.display();
}
}
class Professor extends Employee
{
Professor()
{
System.out.println("Enter Basic Pay:");
bpay = get.nextFloat();
salary();
}
void display()
{
System.out.println(" =====\n Professor\n ===== \n");
super.display();
}
}
class Employees
{
public static void main(String args[]) throws Exception
{
BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
System.out.println(" ----- \n PAY SLIPS \n ----- \n 1. Professor \n 2. Associate
Professor \n 3. Assistant Professor \n 4. Programmer");
System.out.printf("\n Choose the type of Employee: ");
int choice=Integer.parseInt(br.readLine());
switch(choice)
{
case 1:
System.out.println(" =====\n Enter Professor Details \n
===== "+" \n");
Professor ob1 = new Professor();
ob1.display();
break;
case 2:
System.out.println(" =====\n Enter Associate Professor
Details \n ===== "+" \n");
AssociateProfessor ob2 = new AssociateProfessor();
ob2.display();
break;
case 3:
System.out.println(" =====\n Enter Assistant Professor
Details \n ===== "+" \n");
AssistantProfessor ob3 = new AssistantProfessor();

```

```
ob3.display();
break;
case 4:
System.out.println(" =====\n Enter Programmer Details \n
===== "+"\\n");
Programmer ob4 = new Programmer();
ob4.display();
break;
default:
System.out.println("Enter correct choice");
break;
}
}
}
```

### **Viva Questions:**

1. How to create a package in java?
2. How to Create a class Employee inside a package name employee?
3. How to Create class Programmer?
4. How to initialize the instance variable of Employee class?
5. How to Compile the outside package?

### **Result:**

Thus the java application for generating pay slips for the employees with their gross and net salary was developed successfully.