MET
Bhujbal Knowledge City
MET INSTITUTE OF COMPUTER SCIENCE

Advanced Java Lab
ACADEMIC YEAR 2025-2026

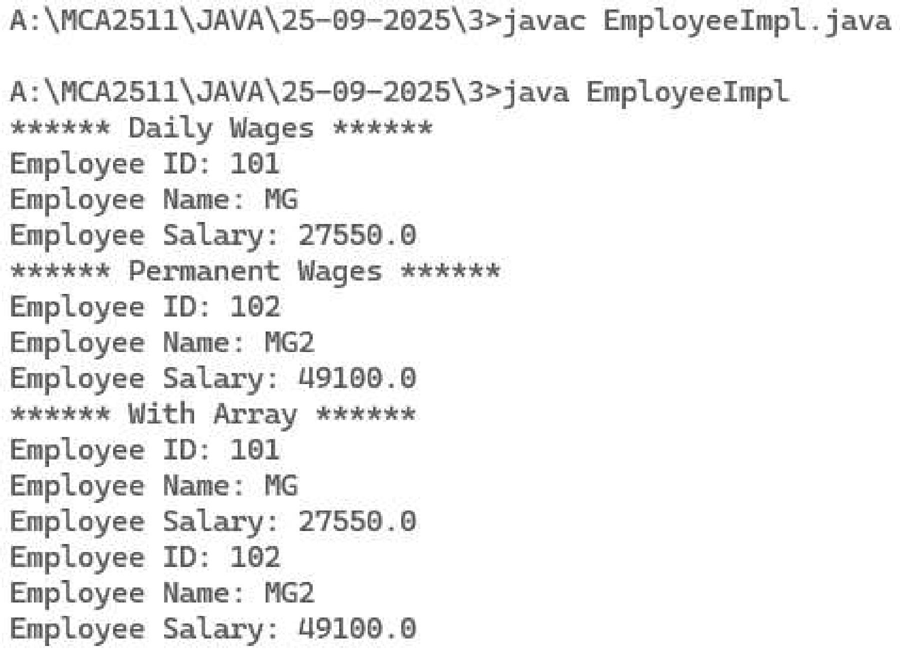
Assignment No	3
Title	Employee Application
Objective	Design Employee Class and inherit it with Daily wages & Permanent Employee override necessary methods
Roll No	MCA2511

Source Code:

```
// Title : Employee Application
// Objective : Design Employee Class and inherit it with Daily wages & Permanent Employee override
necessary methods

class Employee

{
        //data members
        protected int eid;
        protected String ename;
        protected double salary;

        //Parameterized Constructor
        Employee(int eid, String ename)
        {
                this.eid = eid;
                this.ename = ename;
        }

        public int getEid()
        {
                return this.eid;
        }
        public String getEname()
        {
                return this.ename;
        }
        public double getSalary()
        {
                return this.salary;
```

```
    }

    //Utility Methods
    public void calSalary()
    {

    }
}// end of Employee


class DailyWagesEmp extends Employee
{
    //it has three attributes from employee - eid ename and salary
    //speacialized attributes
    double numOfDays;
    double dailyWages;

    //Define a Constructor
    DailyWagesEmp(int eid, String ename, double numOfDays, double dailyWages)
    {
        super(eid,ename);
        this.numOfDays = numOfDays;
        this.dailyWages = dailyWages;
    }

    //Override calSalary Methods
    public void calSalary()
    {
        salary = numOfDays * dailyWages;
    }
}//end of DailyWagesEmp


class PermanentEmp extends Employee
{
    //additional attributes
    static double TA = 1600;
    static double HRA = 30;
    static double DA = 120;
    static double PF = 12.5;

    double basicSal;

    // Define a constructor
    PermanentEmp(int eid, String ename, double basicSal)
    {
        super(eid,ename);
        this.basicSal = basicSal;
    }
    //Override calSalary Methods
    public void calSalary()
    {
        salary = TA + basicSal + (basicSal*HRA/100) + (basicSal*DA/100) - (basicSal*PF/100);
    }
}

class EmployeeImpl
{
    public static void printSalary(Employee temp)
    {
        System.out.println("Employee ID: " + temp.getEid());
        System.out.println("Employee Name: " + temp.getEname());
        System.out.println("Employee Salary: " + temp.getSalary());
    }

    public static void main(String[] args)
    {
        DailyWagesEmp d1 = new DailyWagesEmp(101,"MG", 29, 950);
        d1.calSalary();
        System.out.println("****** Daily Wages ******");
        printSalary(d1);

        PermanentEmp p1 = new PermanentEmp(102,"MG2", 20000);
        p1.calSalary();
        System.out.println("****** Permanent Wages ******");
        printSalary(p1);

        // Create an Array of Employee
        Employee emp[] = new Employee[2];
        emp[0] = d1;
        emp[1] = p1;
        System.out.println("****** With Array ******");

        //print these details
        for(Employee e:emp)
        {
            e.calSalary();
            printSalary(e);
        }

    }// end of psvm
}// end of EmployeeImpl
```

Output:



```
A:\MCA2511\JAVA\25-09-2025\3>javac EmployeeImpl.java

A:\MCA2511\JAVA\25-09-2025\3>java EmployeeImpl
****** Daily Wages ******
Employee ID: 101
Employee Name: MG
Employee Salary: 27550.0
****** Permanent Wages ******
Employee ID: 102
Employee Name: MG2
Employee Salary: 49100.0
****** With Array ******
Employee ID: 101
Employee Name: MG
Employee Salary: 27550.0
Employee ID: 102
Employee Name: MG2
Employee Salary: 49100.0
```