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Course Name :- Java Full Stack Development

Ref. No. SCS/CG/2021/025

Program :-

```java
public class Employee {
    private int empId;
    private String empName;
    private MyDate joiningDate;

    public Employee(){
        empId=101;
        empName="John";
        joiningDate=new MyDate();
    }
    public Employee(int eid,String nm,MyDate jd){
        empId=eid;
        empName=nm;
        joiningDate=jd;
    }
    public void display(){
        System.out.println("Employee Id="+empId);
        System.out.println("Employee Name="+empName);
        System.out.println("Joining Date=");
        joiningDate.display();
    }
    public int getEmpId() {
        return empId;
    }
    public void setEmpId(int empId) {
        this.empId = empId;
    }
    public String getEmpName() {
        return empName;
    }
    public void setEmpName(String empName) {
        this.empName = empName;
    }
    public MyDate getJoiningDate() {
        return joiningDate;
    }
    public void setJoiningDate(MyDate joiningDate) {
        this.joiningDate = joiningDate;
    }


}
```

```java
public class MyDate {
	private int day;
	private int month;
	private int year;
	public MyDate() {
		day=1;
		month=2;
		year=2010;
	}
	public MyDate(int day, int month, int year) {
		this.day = day;
		this.month = month;
		this.year = year;
	}
	public int getDay() {
		return day;
	}
	public void setDay(int day) {
		this.day = day;
	}
	public int getMonth() {
		return month;
	}
	public void setMonth(int month) {
		this.month = month;
	}
	public int getYear() {
		return year;
	}
	public void setYear(int year) {
		this.year = year;
	}

	public void display(){
		System.out.println("Day="+day);
		System.out.println("Month="+month);
		System.out.println("Year="+year);
	}

}



public class TestEmp {
```

```java
    publicstaticvoid main(String[] args) {
        WageEmployeewe1=newWageEmployee();
        WageEmployeewe2=newWageEmployee(102,"krish",newMyDate(6, 7,
2010),200,120);
        we1.display();

System.out.println("_____
");
        we2.display();

System.out.println("_____
");

        WageEmployeewe3=newWageEmployee();
        we3.setEmpId(103);
        we3.setEmpName("Robert");
        we3.setJoiningDate(newMyDate(5,6,2012));
        we3.setHours(300);
        we3.setRate(450);

        System.out.println("EMP Id="+we3.getEmpId());
        System.out.println("EMP Name="+we3.getEmpName());
        System.out.println("Joining Date=");
        we3.getJoiningDate().display();

        System.out.println("Hours="+we3.getHours());
        System.out.println("Rate="+we3.getRate());
        System.out.println("Total Salary="+we3.calculateSalary());

    }
}


//subclass
publicclassWageEmployeeextends Employee{
    privateinthours;
    privatedoublerate;

    publicWageEmployee(){
        //super(); //Employee()
        hours=100;
        rate=250;
    }

    publicWageEmployee(inteid,Stringnm,MyDatejd,inthrs,doublert){
        super(eid,nm,jd); //Employee(...)
        hours=hrs;
        rate=rt;
    }

    //Method Overriding
    publicvoiddisplay(){
        super.display();
```

```java
            System.out.println("Hours="+hours);
            System.out.println("Rate="+rate);
            System.out.println("Total Salary="+calculateSalary());
        }

        //business method
        public double calculateSalary(){
            return hours * rate;
        }

        public int getHours() {
            return hours;
        }

        public void setHours(int hours) {
            this.hours = hours;
        }

        public double getRate() {
            return rate;
        }

        public void setRate(double rate) {
            this.rate = rate;
        }


}


----------------------------------------
OUTPUT----------------------------------------
Employee Id=101
Employee Name=John
Joining Date=
Day=1
Month=2
Year=2010
Hours=100
Rate=250.0
Total Salary=25000.0

_____
Employee Id=102
Employee Name=krish
Joining Date=
Day=6
Month=7
Year=2010
Hours=200
Rate=120.0
Total Salary=24000.0

_____
EMP Id=103
EMP Name=Robert
Joining Date=
```

```
Day=5
Month=6
Year=2012
Hours=300
Rate=450.0
Total Salary=135000.0
```