

Name:-Snehalata S. Shendage

//super class

```
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;
}
}
```

```

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 {
public static void main(String[] args) { WageEmployee we1=new WageEmployee();
WageEmployee we2=new WageEmployee(102,"krish",new MyDate(6, 7, 2010),200,120);
we1.display();
System.out.println(" ");
};
we2.display();
}

```

```

System.out.println(" "
);
WageEmployee we3=new WageEmployee(); we3.setEmpId(103); we3.setEmpName("Robert");
we3.setJoiningDate(new MyDate(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
public class WageEmployee extends Employee{
private int hours;
private double rate;
public WageEmployee(){
//super(); //Employee() hours=100;
rate=250;
}
public WageEmployee(int eid,String nm,MyDate jd,int hrs,double rt){
super(eid,nm,jd); //Employee(...) hours=hrs;
rate=rt;
}
//Method Overriding
public void display(){
super.display(); 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
```