

## Assignment 14

Q1. Design an abstract class Employee with ComputeSal() as an abstract function. Create two subclasses worker and manager. Salary of worker should be calculated on monthly basis with additional incentives. create five objects each of worker and manager class and display their details

**Ans:**

```
abstract class Employee()
```

```
{
```

```
    def calculate();
```

```
}
```

```
class Manager_sal(var empname:String,var bs:Int ,var inc:Int,var pf:Int) extends Employee()
```

```
{
```

```
    var basic_sal = bs
```

```
    var incentive = inc
```

```
    var prov_fund = pf
```

```
    var total_sal :Int = 0
```

```
    var mname = empname
```

```
    def calculate()
```

```
    {
```

```
        total_sal = basic_sal+incentive-prov_fund
```

```
        println("manager name => "+mname+"\t total salary of manager => "+total_sal)
```

```
    }
```

```
}
```

```
class Worker_sal(var empname:String,var hours:Int,var days:Int,var wages:Int,var pf:Int) extends Employee()
```

```
{
```

```
    var wname = empname
```

```

var hr = hours
var day = days
var sal = wages
var prov_fund = pf
var total_sal: Int = 0

def calculate()
{
    total_sal = (hr * day * sal) - prov_fund
    println("worker name =>"+wname+"\t total salary of worker =>"+total_sal)
}
}

```

object Employee\_sal

```

{
    def main(args: Array[String])
    {
        var m1 = new Manager_sal("Ram", 30000, 10000, 2000)
        var m2 = new Manager_sal("Sham", 35000, 8000, 2500)
        var m3 = new Manager_sal("Sita", 48000, 5000, 3000)
        var m4 = new Manager_sal("Geeta", 52000, 3200, 2800)
        var m5 = new Manager_sal("Radha", 66600, 14000, 4000)
        println("-----MANAGER SALARY -----\\n ");
        m1.calculate()
        m2.calculate()
        m3.calculate()
        m4.calculate()
        m5.calculate()
    }
}

```

```

var w1 = new Worker_sal("Ram",7,27,700,2700)
var w2 = new Worker_sal("Sham",12,20,1200,3500)
var w3 = new Worker_sal("Sita",9,23,1350,3800)
var w4 = new Worker_sal("Geeta",11,15,4000,2900)
var w5 = new Worker_sal("Radha",14,22,4570,4000)

println("\n -----WORKER SALARY ----- \n ");

w1.calculate()
w2.calculate()
w3.calculate()
w4.calculate()
w5.calculate()

}
}

```

---

Output:

```

-----MANAGER SALARY -----

manager name => Ram    total salary of manager => 38000
manager name => Sham   total salary of manager => 40500
manager name => Sita   total salary of manager => 50000
manager name => Geeta  total salary of manager => 52400
manager name => Radha  total salary of manager => 76600

-----WORKER SALARY -----

worker name =>Ram     total salary of worker =>129600
worker name =>Sham    total salary of worker =>284500
worker name =>Sita    total salary of worker =>275650
worker name =>Geeta   total salary of worker =>657100
worker name =>Radha   total salary of worker =>1403560

```