

### **Labsheet 03**

Exercise 3-1: Develop a code for the following scenario.

“An encapsulated class contains three variables to store Name, Age and Salary of the employee. Develop getters and setters to set and get values. Develop a test class to test your code.”

Now modify the same code by trying to replace the setters using a constructor.

```
package com.mycompany.practical3test;

public class Employee
{
    private String storename;
    private int age;
    private double salary;

    public void setData(String n,int a,double s)
    {
        storename=n;
        age=a;
        salary=s;
    }

    public String getName()
    {
        return storename;
    }

    public int getAge()
    {
        return age;
    }
}
```

```
public double getSalary()
{
    return salary;
}
```

```
//parameterized constructor
```

```
public Employee(String n,int a,double s)
{
    storename=n;
    age=a;
    salary=s;
}
```

```
public void display()
{
    System.out.println("Store name is "+storename);
    System.out.println("Age is "+age);
    System.out.println("Salary is "+salary);
}
```

```
}
public class Practical3Test
{
    public static void main(String[] args)
    {
        Employee e1=new Employee("def",25,25000.00f);
        e1.setData("abc", 23, 50000.00f);
        e1.display();
    }
}
```

```

        System.out.println("Store name is "+e1.getName());
        System.out.println("Age is "+e1.getAge());
        System.out.println("Salary is "+e1.getSalary());
    }
}

```

Exercise 3-2: Code for the last example that we have discussed during the class. We need the following Output. (Use Netbeans code generation option where necessary)

Employee Name: xxxxx (Use setter to set and getter to retrieve)

Basic Salary: xxxxx (Use setter to set and getter to retrieve)

Bonus: xxxxx (You may use the constructor to pass this value)

Bonus Amount: xxxxx (Develop a separate method to calculate Bonus amount. Bonus amount is the total of Bonus and Basic Salary)

E.g.

Employee Name: Bogdan

Basic Salary: 50000

Bonus: 10000

Bonus Amount: 60000

```

package com.mycompany.employeeobj;
public class Employee
{
    private String EmpName;
    private double Salary,Bonus,Bamount;

    //setter method
    public void setData(String n,double s)
    {
        EmpName=n;
        Salary=s;
    }
}

```

```

public String getName()
{
    return EmpName;
}
public double getSalary()
{
    return Salary;
}

//parameterized Constructor
public Employee(double b)
{
    Bonus=b;
}

public void calcAmount()
{
    Bamount=Bonus+Salary;
}

public void display()
{
    System.out.println("Employee Name: "+EmpName);
    System.out.println("Basic Salary: "+Salary);
    System.out.println("Bonus: "+Bonus);
    System.out.println("Bonus Amount: "+Bamount);
}
}

public class EmployeeObj
{

    public static void main(String[] args)
    {
        Employee e1=new Employee(10000.00f);
        e1.setData("Bogdan", 50000.00f);
        e1.calcAmount();
        e1.display();
    }
}

```

