



Assignment Of Observer Pattern

Course Name: **Object Oriented Software Development**

Course Code: **SWE331**

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```
import java.util.ArrayList;
import java.util.List;
```

```
public class Organization {
```

```
    private String Name;
    private double ProductPrice;
    private List <User> UserList;
```

```
    public Organization (String Name, double ProductPrice) {
        this.Name = Name;
        this.productPrice = ProductPrice;
        UserList = new ArrayList<User>();
    }
```

```
    public void subscribe(User user){
        UserList.add(user);
    }
```

```
    public void changePrice(double DeductionPrice) {
        if(newPrice!=ProductPrice) {
            ProductPrice = DeductionPrice;
            notifyUsers();
        }
    }
```

```
    private void notifyUsers() {
        for(int i =0; i<UserList.size();i++){
            User u = UserList.get(i);
            System.out.println("Informing user: "+u.Name);
            u.recieveNotification(Name, ProductPrice)
        }
    }
}
```



```
public class Main {

    public static void main(String[] args) {
        User a = new User("A");
        User b = new User("B");
        User c = new User("C");
        User d = new User("D");

        Company dc = new Company("DipzolConsumer",100);
        Company cb = new Company("CellBazar",200);
        Company bx = new Company("Beximco",400);

        bex.subscribe(a);
        bex.subscribe(d);

        dc.subscribe(c);
        cb.subscribe(d);
        bex.changePrice(160);
    }
}



---



public class User {

    protected String Name;

    public User(String Name) {
        this.Name = Name;
    }

    public void recieveNotification(String Name, double
    ProductPrice) {

        System.out.println("ProductPrice of "+Name +" has been
        deduction!! Now running on: "+ProductPrice+"taka" );
    }
}



---


```