

```

public abstract class User {

    //List<LiveCricket> livecricket=new ArrayList();

    protected LiveCricket cricket;

    protected LiveCricket cricket2;

    protected LiveCricket cricket3;

    public abstract void watch(String status);

    public abstract void stop();

}public class AyubCricket implements LiveCricket{

    List<User> users=new ArrayList();

    @Override

    public void attach(User user) {

        users.add(user);

    }


    @Override

    public void detach(User user) {

        users.remove(user);

    }

    @Override

    public void Notify() {

        for(User user: users){

            user.watch("Ayub Cricket: runs:125 Out: 4 Overs: 12");

        }

    }

}

```

```
public class userA extends User{
```

```
    public userA(MansehraCricket cricket, AyubCricket cricket2, AliPoorCricket cricket3) {  
        this.cricket=cricket;  
        this.cricket2=cricket2;  
        this.cricket3=cricket3;  
    }
```

```
    public void SelectMatch(){  
        Scanner sc=new Scanner(System.in);  
        int a;  
        System.out.println("Please Select a match from live matches below!");  
        System.out.println("Mansehra live match");  
        System.out.println("Ali poor live match");  
        System.out.println("Ayub live match");  
        a=sc.nextInt();  
        switch(a){  
            case 1:  
                cricket.attach(this);  
                break;  
            case 2:  
                cricket2.attach(this);  
                break;  
            case 3:  
                cricket3.attach(this);  
        }  
    }
```

```
@Override
```

```

    public void watch(String status) {
        System.out.println(status);
    }

    @Override
    public void stop() {
        cricket.detach(this);
        cricket2.detach(this);
        cricket3.detach(this);
    }

}

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package midtermlab;

import java.util.*;

/**
 *
 * @author sp20-bse-072
 */
public class AliPoorCricket implements LiveCricket{
    List<User> users=new ArrayList();

    @Override

```

```
public void attach(User user) {  
    users.add(user);  
}
```

```
@Override  
public void detach(User user) {  
    users.remove(user);  
}
```

```
@Override  
public void Notify() {  
    for(User user: users){  
        user.watch("Ali Poor Cricket: runs:120 Out: 3 Overs: 21");  
    }  
}  
}
```

```
/*
```

```
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```

```
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```

```
* and open the template in the editor.
```

```
*/
```

```
package midtermlab;
```

```
import java.util.*;
```

```
/**
```

```
*
```

```
* @author sp20-bse-072
```

```
*/
```

```

public class MansehraCricket implements LiveCricket{

    List<User> users=new ArrayList();

    @Override

    public void attach(User user) {

        users.add(user);

    }


    @Override

    public void detach(User user) {

        users.remove(user);

    }


    @Override

    public void Notify() {

        for(User user: users){

            user.watch("Mansehra Cricket: runs:120 Out: 3 Overs: 21");

        }

    }

}

/*
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 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package midtermlab;

import java.util.ArrayList;

```

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

```
/**
```

```
*
```

```
* @author sp20-bse-072
```

```
*/
```

```
public interface LiveCricket {
```

```
    //List<User> users=new ArrayList();
```

```
    void attach(User user);
```

```
    void detach(User user);
```

```
    void Notify();
```

```
}
```