

CircketMatches Code:

```
package observer;

/**
 *
 * @author fa20-bse-053
 */
import java.util.ArrayList;
import java.util.List;

public class CircketMatches {

    private List<LiveMatches> liveMatches = new ArrayList<LiveMatches>();
    private int state;
    private int score;
    private int over;

    public int getState() {
        return (state) ;
    }

    public void setState(int state, int score, int over) {
        this.state = state;
        this.score = score;
        this.over = over;
        notify();
    }
}
```

```

public void attach(LiveMatches liveMatches){
    liveMatches.add(liveMatches);
}

@Override
public void notify(){
    for (LiveMatches liveMatches : liveMatches) {
        observer.update();
    }
}
}

```

CivilTeam Code

```

*/
package observer;

/**
 *
 * @author fa20-bse-053
 */
public class CivilTeam extends LiveMatches{

    public CivilTeam(CircketMatches circketMatches){
        this.circketMatches = circketMatches;
        this.circketMatches.attach(this);
    }
}

```

```

@Override

public void update() {

    System.out.println( "Binary String: " + circketMatch.getState() );

}

}

```

ComputerEngineeringTeam Code

```

package observer;

/**
 *
 * @author fa20-bse-053
 */

public class ComputerEngineeringTeam extends LiveMatches{

    public ComputerEngineeringTeam(CircketMatches circketMatches){

        this.circketMatches = circketMatches;

        this.circketMatches.attach(this);

    }

    @Override

    public void update() {

        System.out.println( "Hex String: " + circketMatches.getState() );

    }

}

```

ElectricalTeam Code

```

package observer;

/**
 *
 * @author fa20-bse-053
 */
public class ComputerEngineeringTeam extends LiveMatches{

    public ComputerEngineeringTeam(CircketMatches circketMatches){

        this.circketMatches = circketMatches;

        this.circketMatches.attach(this);

    }

    @Override
    public void update() {

        System.out.println( "Hex String: " + circketMatches.getState() );

    }

}

```

Environmental code

```

package observer;

/**
 *
 * @author fa20-bse-053
 */
public class EnvironmentalScienceTeam extends LiveMatches{

```

```

public EnvironmentalScienceTeam(CircketMatches circketMatches){
    this.circketMatches = circketMatches;
    this.circketMatches.attach(this);
}

@Override
public void update() {
    System.out.println( "Environmental Science Match Performance: " + circketMatches.getState() );
}
}

```

LiveMatches Code

```

package observer;

/**
 *
 * @author fa20-bse-053
 */
public abstract class LiveMatches {
    protected CircketMatches subject;
    public abstract void update();
}

```

MainClass Code

```

package observer;

```

```

/**

```

```

*
* @author fa20-bse-053
*/
public class MainClass {
    public static void main(String[] args) {
        CricketMatches cricketMatches = new cricketatches();

        new CivilTeam(cricketatches);
        new ComputerEngineeringTeam(cricketatches);
        new SoftWareTeam(cricketatches);
        new ElectricalTeam(cricketatches);
        new EnvironmentalScienceTeam(cricketatches);

        System.out.println("First state change: 15");
        cricketatches.setState(15);
        System.out.println("Second state change: 10");
        cricketatches.setState(10);
    }
}

```

SoftwareTeam Code

```

package observer;

/**
 *
 * @author fa20-bse-053
 */

```

```
public class SoftWareTeam extends LiveMatches{

    public SoftWareTeam(CircketMatches circketMatches){
        this.circketMatches = circketMatches;
        this.circketMatches.attach(this);
    }

    @Override
    public void update() {
        System.out.println( "Civil Team Performance: " + circketMatches.getState() );
    }
}
```