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AOP Lab Evaluation 3:

Program:

`InviteMain.java`

```java
class Invite{
    int id;
    String name;

    void invite(int id, String name){
        this.id = id;
        this.name = name;
    }

    void serve(int serve_id){
        this.id = serve_id;
        System.out.println("Serving: "+id);
    }

    void seeoff(int outid){
        this.id = outid;
        System.out.println("id: " + id + "is leaving");
    }
}

class InviteMain{
    public static void main(String[] args) {
        Invite i = new Invite();
        i.invite(100, "Prabodh");
        i.serve(100);
        i.seeoff(100);
    }
}
```

myaspect.java

```java
aspect request{
    pointcut p1() : call(* Invite.*(..));
    before() : p1(){
        System.out.println("**Request Mode");
    }

    after() : p1(){
        System.out.println("**After Request Over");
    }
}
```

```
aspect acknowledge{
    pointcut p2() : call(* Invite.*(..));
    before() : p2(){
        System.out.println("**Before acknowledge: before advice for
acknowledegment");
    }

    after() : p2(){
        System.out.println("**After Acknowledge: After advice for
acknowledegment");
    }
}

aspect confirm{
    pointcut p3() : call(* Invite.*(..));
    after() : p3(){
        System.out.println("**After Confirmation");
    }

    before() : p3(){
        System.out.println("**Before Confirmation");
    }
}

aspect feedback{
    pointcut p4() : call(* Invite.*(..));
    after() : p4(){
        System.out.println("**After Feedback");
    }

    before() : p4(){
        System.out.println("**Before Feedback");
    }
}

aspect MyAspect{
    declare precedence : request, acknowledge, confirm, feedback;
}
```

Output:

∗∗Request Mode
∗∗Before acknowledge: before advice for acknowledegment
∗∗Before Confirmation
∗∗Before Feedback
∗∗After Feedback
∗∗After Confirmation
∗∗After Acknowledge: After advice for acknowledegment
∗∗After Request Over
∗∗Request Mode
∗∗Before acknowledge: before advice for acknowledegment
∗∗Before Confirmation
∗∗Before Feedback
Serving: 100
∗∗After Feedback
∗∗After Confirmation
∗∗After Acknowledge: After advice for acknowledegment
∗∗After Request Over
∗∗Request Mode
∗∗Before acknowledge: before advice for acknowledegment
∗∗Before Confirmation
∗∗Before Feedback
id: 100is leaving
∗∗After Feedback
∗∗After Confirmation
∗∗After Acknowledge: After advice for acknowledegment
∗∗After Request Over