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AOP Lab Evaluation 1:

**Program:**

SeminarMAin.java

class Seminar{

private int id;

private String name;

private String type;

public void Submit\_Consent(String name, int id , String type){

this.type = type;

this.name = name;

this.id = id;

}

public void Change\_Type(String type){

this.type = type;

}

public void Deny\_Consent(int id){

}

public void Show\_Detail(){

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Name: " + this.name);

System.out.println("ID: " + this.id);

System.out.println("Consent Type: " + this.type);

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

}

public class SeminarMain{

public static void main(String[] args) {

Seminar s = new Seminar();

s.Submit\_Consent("Prabodh", 55, "Coming");

s.Show\_Detail();

s.Change\_Type("Not Coming");

s.Show\_Detail();

s.Deny\_Consent(55);

}

}

**myaspect.java**

public aspect myaspect{

Scanner s = new Scanner(System.in);

pointcut query() : (call(void Seminar.Submit\_Consent(..)));

before() : query(){

System.out.println("\*\*Are you sure you want to submit consent? ");

char a = s.next().charAt(0);

if(a == 'y'){

System.out.println("\*\*Consent given ");

}

else if(a == 'n'){

System.out.println("\*\*Consent not given ");

}

}

pointcut typeChange() : (call(void Seminar.Change\_Type(String)));

before() : typeChange(){

System.out.println("\*\*Changing type");

}

pointcut denyConsent() : (call(void Seminar.Deny\_Consent(int)));

before() : denyConsent(){

System.out.println("\*\*Denying consent");

}

after() : denyConsent(){

System.out.println("\*\*Consent denied");

}

pointcut details() : (call(void Seminar.Show\_Detail()));

before() : details(){

System.out.println("\*\*Showing details: ");

}

}

**Output:**

\*\*Are you sure you want to submit consent?

y

\*\*Consent given

\*\*Showing details:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: Prabodh

ID: 55

Consent Type: Coming

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\*Changing type

\*\*Showing details:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: Prabodh

ID: 55

Consent Type: Not Coming

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\*Denying consent

\*\*Consent denied

Note: All the messages with \*\* are from aspect;