Program (Meta java)

```java
impart java.lang.annotation.*;
impart java.lang.reflect.*;

@Retention (RetentionPolicy.RUNTIME)
@interface MyAnno {
    String str();
    int val();
}


public class meta
{
    // Annotate a method
    @MyAnno(str ="Annotation Example", val=
                                      1000)
    public static void myMeth()
    {
        Meta ob = new Meta();

        try {
            Class c = ob.getClass();

            // Now, get a Method object that represents
            // this method.
            Method m = c.getMethod("myMeth");

            // Next, get the annot annotation for this class
            MyAnno anno = m.getAnnotation(MyAnno.
                                          class);
```

```
//Finally, display the values
   Sop( anno.str()+" "+anno.
                        val());
   }
   catch (NoSuchMethod Excep" e)
   {
   Sop ("method not found");
   }
   }

   p.sum()
    ↑
   myMeth();
   }
   }
```

Program (Meta2 java)

```java
import java.lang.annotation.*;
import java.lang.reflect.*;


@Retention(RetentionPolicy.RUNTIME)
@interface MyAnno
{
    String str();
    int val();
}

@Retention(RetentionPolicy.RUNTIME)
@interface What{
    String description();
}

@What(description = "An annotation test
                     class")
@MyAnno(str = "class", val = 99)
public class Meta2{

@What(description = "An annotation test
                    method")
@MyAnno(str ="Method", val = 100)
    public static void myMeth(){
        Meta ob = new Meta();

        try{
```

```
Annotation annos[]
          = ob.getClass().get-
                - Annotations();

MyAnno mn = ob.getClass().
          getAnnotation (MyAnno.
                              class);
    Sop(mn.getClass().getName());
    Sop(mn.str());
    Sop (mn.val());
          // Display all annot" for Meta2

    Sopl("All annot" for Meta2")
for(int i=0; i<annos.length ; i++)
    Sop(annos[i]);


    Sop();

//Display all annot" for myMeth

Method m=ob.getClass().getMethod
              ("myMeth");
annos = m.getAnnotation();

Sop ("All annotation for myMeth : ");
for(int i =0; i<annos.length; i++)
          Sop(annos[i]);

}
catch (NoSuchMethodExcep" exc){
          Sop ("method not found");
}}
```

```
{ psvm()

  myMeth();

}
```