Chapter 9 Access Modifiers & Contractors by Munawar

Access Modifiers

Specifies where a property method is accessible. These are four types of access modifiers in java.

1. Private

2. Default

3. Protected

4. Public

Getters and Setters

Getter ====> Returns the value.

Setter ==== > Sets/Update the value.

Example:

```java
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;
class MyStudents{
  private    int ID;
   private String name;

   public void setID(int id){
       ID=id;
   }
   public void Setname(String n){
       this.name=n;
   }


   public String getName(){
       return name;
   }

   public int getID(){
```

```
        return ID;
    }
}
public class Main {
    public static void main(String[] args) {

        MyStudents mstd=new MyStudents();
//        mstd.ID=148;
//        mstd.name="Munawar";      // ....> it give error we can not access
private data
        mstd.setID(148);
        mstd.Setname("Munawar");
        System.out.print("My Registration number is :");
        System.out.println(mstd.getID());
        System.out.print("My Name is :");
        System.out.println(mstd.getName());


    }


}
```

Quick Quiz:

Use these getters a d setters from the main method.

Source Code

```
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;
class MyStudents{
  private    int ID;
   private String name;

   public void setID(int id){
       ID=id;
   }
   public void Setname(String n){
       this.name=n;
   }


   public String getName(){
       return name;
   }

   public int getID(){
       return ID;
   }
}
```

```java
public class Main {
    public static void main(String[] args) {

        MyStudents mstd=new MyStudents();
//        mstd.ID=148;
//        mstd.name="Munawar";      // ....> it give error we can not access
private data
        mstd.setID(148);
        mstd.Setname("Munawar");
        System.out.print("My Registration number is :");
        System.out.println(mstd.getID());
        System.out.print("My Name is :");
        System.out.println(mstd.getName());


    }

}
```

}

Thank You