Date: 23/12/2020 Spring Boot 9AM Mr. RAGHU

Project Lombok API-II

```
@NoArgsConstructor: It always generates default constructor.
@RequiredArgsConstructor:
  If there are no variales annotated with @NonNull then
  it will generate default constrcutor.
----Examples---
#1.
@RequiredArgsConstructor
public class Employee {
       private Integer eid;
       private String ename;
Generated code: -
public class Employee {
       private Integer eid;
       private String ename;
       public Employee() {
           super();
}
#2.***
@NoArgsConstructor
@RequiredArgsConstructor
public class Employee {
       private Integer eid;
       private String ename;
}
Generated Code by Lombok:
//compile time error (duplicate method Employee() )
public class Employee {
       private Integer eid;
       private String ename;
       public Employee() { ____ }
       public Employee() {
}
     _____
** @AllArgsConstructor : It will generate default constrcutor
          if class has zero variables (no variables).
----Example-----
#3.
@AllArgsConstructor
public class Employee {
Generated code:
```

```
public class Employee {
  public Employee() {
      super();
   }
}
#4.
@NoArgsConstructor
@AllArgsConstructor
public class Employee {
Generated code:
//compile time error (duplicate method Employee() )
public class Employee {
  public Employee() { ___ }
  public Employee() {
}
#5. ***??
@NoArqsConstructor
@RequiredArgsConstructor
@AllArgsConstructor
public class Employee {
Generated code:
//compile time error (duplicate method Employee() )
public class Employee {
  public Employee() { ___ }
  public Employee() { ___ }
  public Employee() {
                        Lombok : @Data
Here , @Data reduces multiple annotations coding.
@Data is a combination of
 @Setter + @Getter + @ToString + @EqualsAndHashCode +
@RequiredArgsConstructor
---Examples---
#1
@Data
public class Employee {
 private Integer eid;
Generated code:
public class Employee {
 private Integer eid;
 public Employee() {      } //default const.
  // setEid, getEid
```

```
// equals() hashCode()
  // toString()
}
#2.
@Data
public class Employee {
 @NonNull
 private Integer eid;
 //one param const.
 public Employee(Integer eid) { this.eid=eid; }
 // setEid, getEid
 // equals() hashCode()
  // toString()
*****
*** NOTE ****
*****
@Data provides internally @RequiredArgsConstructor,
if programmer did not write any Constructor annotation
(@ ArgsConstructor).
--Ex-----
#1.
@Data
                     // it wont provide @RequiredArgsConstructor now.
@NoArgsConstructor //default constrcutor
public class Employee {
 @NonNull
 private Integer eid;
}
Generated code: //only one constrcutor
public class Employee {
 private Integer eid;
 public Employee() {
}
#2.
@Data
@AllArgsConstructor
public class Employee {
        @NonNull
       private Integer eid;
       private String ename;
       private Double esal;
}
Generated code:
public class Employee {
       private Integer eid;
       private String ename;
        private Double esal;
    public Employee(eid, ename, esal) {      } //3 params
}
```

```
*) Note:-
Lombok supports only 3 constructors (1 default, 2 param).
If we need any other constrcutors then we must add manually.
--Ex--
package in.nareshit.raghu;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
import lombok.NonNull;
import lombok.RequiredArgsConstructor;
@Data
@NoArgsConstructor //def
@RequiredArgsConstructor //1 param
@AllArgsConstructor //3 param
public class Employee {
       @NonNull
       private Integer eid;
       private String ename;
       private Double esal;
       // i want add one more const?? -- add manually
       public Employee(String ename) {
              this.ename=ename;
       }
}
_____
```