SOUNTS

Annotation

19th dec Enums and Annotation

```
20 December 2022
                       12:25
                                    > to define General of Constants, Annotations used
 Enums ——
                                            Enums internally.
 //NORTH SOUTH EAST WEST
 // SUN MON TUE WED THU FRI SAT
 // PASS FAIL NR
 // so on.....
 enum Result1 {
    PASS, FAIL, NR; // public static final
                                                 -> inside this we can create
    // fields --> instance var --> properties
    // methods
                                                     1. insteme von
    // Constructor
 }
 // enum Compass
 // {
 // NORTH, SOUTH, EAST, WEST;
 // }
                                                  -> Value of Enum constant == Voribone
 // class Demo
 // {
 // //final int PASS=35;
 // //PASS --> error
 // }
// separte .class for every enum
public class LaunchEnum {
    enum Gender {
        MALE, FEMALE, OTHERS;
    public static void main(String[] args) {
 }
 enum Result {
     PASS, FAIL, NR; // static final
     int ResultId;
     // PASS --> public static final Result PASS=new Result();
     // FAIL --> static final Result FAIL =new Result();
     // NR ---> static final Result NR=new Result();
     Result() {
        System.out.println("Constructor is called");
     }
     void setResultId(int ResultId) {
        this. ResultId = ResultId;
     int getResultId() {
        return ResultId;
     }
 }
```

```
19th dec Annotation with Comments we can any give into to other developer 2012 14:04 with Annotations we can give it to Compiler.
 20 December 2022
// Annotation java 5 entre info giving to class on JVM on websever et.
 //Annotation --> Annotation --> parent of all Annotations
                                   98% We
 //Annotation ---> Built in 🖊
            ---> Custome (our Own)
 // Annotation -->
 //1) class
 //2) interface
 //3) method
 // 4) fields // instance var
 //5 ) local variables
 // 6) Consrtuctor
 // 7) Parameters
 // 8) enum
@FunctionalInterface - Annotation
 interface Trial {
     int getNum();
     // void disp();
 class JavaLearning {
     public void disp1() {
         System.out.println("Parent disp");
 class Focus extends JavaLearning {
     @Override
     public void disp1() {
         System.out.println("Focus is key");
 }
 public class LaunchAnno {
     public static void main(String[] args) {
        Trial t = () -> {return 10;};
 }
 Creating Own Annotation
 1.Create interface with @
 2.give @target:for which level you are making &
 3.give Retention till which level you want it
 import java.lang.annotation.ElementType;
                                                             RUNTIME - JUM
 // There are 3 types of Annotation
 // 1.Marker : nothing inside body
                                                             SOURCE - avail to other devolupers
 // 2.single :single method inside body
 // 3.Multime: more than one method inside body
          volued
```

```
- How to Create Annotations:
( @Target(ElementType.TYPE)

⟨ @Retention(RetentionPolicy.RUNTIME)

@interface CricketPlayer {
     // @ --> its not interface but its Annotation being created
     String country() default "India";
     int runs();
 }
 @CricketPlayer(country = "US", runs = 2000)
 class ViratKohli {
     private int innings;
     private String name;
     public int getInnings() {
         return innings;
     public void setInnings(int innings) {
         this.innings = innings;
     public String getName() {
         return name;
     public void setName(String name) {
         this.name = name;
 }
 public class LaunchAnn2 {
     public static void main(String[] args) {
         ViratKohli vk = new ViratKohli();
         vk.setInnings(300);
         vk.setName("VK");
         System.out.println(vk.getInnings());//300
         System.out.println(vk.getName());//VK
         Class c = vk.getClass();
                                                               & How to Access Annotwin
         Annotation an = c.getAnnotation(CricketPlayer.class);
         CricketPlayer cp = (CricketPlayer) an;//downCasting
         System.out.println(cp.runs());//2000
         System.out.println(cp.country());//US
     }
 }
```