

**Dt : 26/10/2023**

**\*imp**

**Enum<E> in Java:**

**=>Enum<E> is an abstract class from java.lang package and which is used to generate enum-objects.**

**=>we use the following syntax to create enum-objects:**

```
enum Enum_name
```

```
{
```

```
//elements
```

```
//variables
```

```
//methods
```

```
//Constructors
```

```
//blocks
```

```
}
```

**=>Each element declared in enum-syntax is automatically static and final.**

**=>Each element declared in enum-syntax is internally generated as one enum-object.**

**=>Enum-Object creations has highest priority.(Than Static blocks in Enum)**

**=>The constructors which are declared within the Enum are automatically private Constructors.**

**Note:**

=>Enum<E> is used in the projects where we have defined list of elements.

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Ex-program :

p1 : EDisplay.java

```
package p1;
public enum EDisplay
{
    CoreJava (3500) , AdvJava (4000) , Hibernate (5000) , Spring (6000);

    static
    {
        System.out.println("****static-block****");
    }

    {
        System.out.println("****Instance-block****");
    }

    public int cost;
    private EDisplay(int cost)
    {
        this.cost = cost;
    }
    public int getCost()
    {
        return cost;
    }
}
```

p2 : DemoEnum.java(MainClass)

```

package p2;
import p1.EDisplay;
import java.util.*;
public class DemoEnum
{
    public static void main(String[] args)
    {
        EDisplay ed[] = EDisplay.values();
        //Array holding Enum-Objects
        System.out.println("===Enum-Objects===");
        Spliterator<EDisplay> sp =
Arrays.spliterator(ed);
        sp.forEachRemaining((k) ->
        {

System.out.println("CourseName:"+k.toString()+"\t"
                    +"CourseCost:"+k.getCost());
        });
    }
}

```

o/p:

\*\*\*Instance-block\*\*\*

\*\*\*Instance-block\*\*\*

\*\*\*Instance-block\*\*\*

\*\*\*Instance-block\*\*\*

\*\*\*static-block\*\*\*

===Enum-Objects===

CourseName:CoreJava CourseCost:3500

CourseName:AdvJava CourseCost:4000

CourseName:Hibernate CourseCost:5000

CourseName:Spring CourseCost:6000

Diagram:

