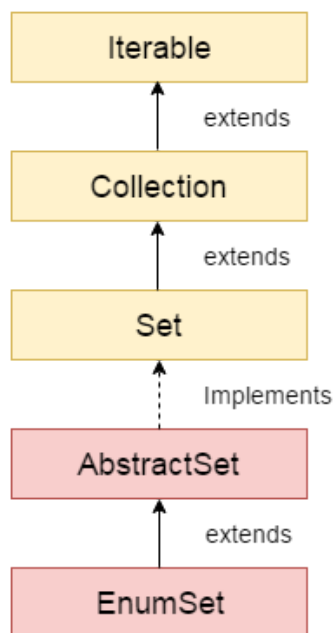


# Java EnumSet class

Java EnumSet class is the specialized Set implementation for use with enum types. It inherits AbstractSet class and implements the Set interface.

## EnumSet class hierarchy

The hierarchy of EnumSet class is given in the figure given below.



## EnumSet class declaration

Let's see the declaration for java.util.EnumSet class.

```
public abstract class EnumSet<E extends Enum<E>> extends AbstractSet<E> implements Cloneable, Serializable
```

## Methods of Java EnumSet class

Method	Description
static <E extends Enum<E>> EnumSet<E> allOf(Class<E> elementType)	It is used to create an enum set containing all of the elements in the specified element type.
static <E extends Enum<E>> EnumSet<E> copyOf(Collection<E> c)	It is used to create an enum set initialized from the specified collection.
static <E extends Enum<E>> EnumSet<E> noneOf(Class<E> elementType)	It is used to create an empty enum set with the specified element type.

<code>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e)</code>	It is used to create an enum set initially containing the specified element.
<code>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; range(E from, E to)</code>	It is used to create an enum set initially containing the specified elements.
<code>EnumSet&lt;E&gt; clone()</code>	It is used to return a copy of this set.

## Java EnumSet Example

```
import java.util.*;
enum days {
    SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY
}
public class EnumSetExample {
    public static void main(String[] args) {
        Set<days> set = EnumSet.of(days.TUESDAY, days.WEDNESDAY);
        // Traversing elements
        Iterator<days> iter = set.iterator();
        while (iter.hasNext())
            System.out.println(iter.next());
    }
}
```

Output:

```
TUESDAY
WEDNESDAY
```

## Java EnumSet Example: allOf() and noneOf()

```
import java.util.*;
enum days {
    SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY
}
public class EnumSetExample {
    public static void main(String[] args) {
        Set<days> set1 = EnumSet.allOf(days.class);
        System.out.println("Week Days:"+set1);
        Set<days> set2 = EnumSet.noneOf(days.class);
        System.out.println("Week Days:"+set2);
    }
}
```

Output:

```
Week Days:[SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY]  
Week Days:[]
```

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