Java Enum

- "enum" is a keyword and introduced in Java 5.
- An enum type is a special data type.
- Enum type variable is a set of named constants.
- Enum is final implicitly.
- Enum is by default child of java.lang.Enum class
- Enum can not be local, means can not declare enum in local block.

For example, you would specify a country enum type as:

```java
enum Country {
        INDIA, USA, CHINA, ENGLAND ; // here ; is optional
} ; // here ; is optional
public class EnumEx {
        public static void main(String[] args) {
                Country c=Country.INDIA;
                System.out.println(c);
                //This will print INDIA (i.e. name of a variable in enum)
        }
}
```

Java Enum

```java
enum A {
  // code
}
class B{
  // code
}
```
✓

```java
class B{
   enum A {
     // code
    }
}
```
✓

```java
interface Y{
  // code
}
enum A implements Y{
   // code
}
```
✓

```java
class B{
 void m(){
    enum A {
      // code
     }
  }
}
```
✗

```java
enum A {
 // code
}
enum B extends A
{
 // code
}
```
✗

```java
class B{
 // code
}
enum A extends B
{
 // code
}
```
✗

```java
enum A {
 // code
}
class B extends A{
// code
}
```
✗