ANNOTATIONS AND JAVA DOC

JAVA DOC

- There is a tool called java doc that will help to prepare the documentation for the classes.
- ➤ Java provides some tags for java documentation those are known as iava doc tool.
- ➤ The tags for class or a package are:
 - @author:

Adds the author name of the class.

@version:

Adds a version subheading with specified version text to generated docs.

@since:

To mention when <u>was the version</u> written or <u>how long</u> it may be valid.

@see:

Adds a see also heading with a link for example to see the references to the given link.

- > The tags for methods are:
 - @param:

To mention the parameters taken by particular product.

@return:

To mention the value returned by the method.

@throws/@exception:

To know the exception thrown by the method.

@deprecated:

To mention whether the <u>method is deprecated or</u> not that is the method may not be used longer.

@code:

Displays text in code font without interpreting the text as HTML mark-up or nested java doc tags.

- ➤ The other tags available are:
 - @link:

To provide the link for particular resource.

@value:

To provide value for any static variable or a member.

@serial:

To mention the serial id for serialization.

BUILT-IN ANNOTATIONS IN JAVA

- Annotations are used for giving <u>attributes or defining</u> the attributes for a class or a interface or methods.
- <u>Annotations are useful for giving meta data</u> to class or interface or a method.
- ➤ Built-in annotations can be categorised into two:
- → Applied to code:

These are set of annotations applied upon the code.so, this type of annotation gives the hint to the compiler so that it avoids showing errors and warnings.

The in-built annotations applied to the code are:

@Override:

It informs the <u>compiler</u> that the <u>element is meant</u> to over ride an element declared in a superclass.

• @deprecated:

It indicates that the marked element is deprecated and should no longer be used.

@FunctionalInterface:

Indicates that the type declaration is intended to be a functional interface

@SuppressWarnings:

It tells the <u>compiler to suppress specific warnings</u> that it would otherwise generate.

@SafeVarArgs:

When it is applied to a <u>method or a constructor</u>, it asserts that the <u>code does not perform potentially unsafe operations on its varargs parameter</u>.

→ Applied to other annotations:

These are set of <u>annotations applied upon user-defined</u> annotation.

The different user-defined annotations are:

@Retention:

It specifies how the marked annotations are stored.

@Documented:

It indicates that whenever the specified annotation is used those elements should be documented using java doc tool

@Target:

It marks another annotation to restrict what kind of java element the java elements can be applied to.

@Inherited:

It indicates that the annotation type can be inherited from super class.

• @Repeatable:

It indicates that the marked annotation can be applied more than once to the same declaration or type used.

➤ Meta data:

Metadata is "data that provides <u>information</u> about other data".In other words, it is "data about data."