J2SE :
JDK s/w
Java 8 or above

Java developer : JDK

Java : JRE

Demo.java -----
public Demo1
Demo2
Demo3

Demo.java

class Demo{

}

Demo.java -----------> compiler ------Demo.class------>JVM

Developing Java Application in IDE (STS):
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in java all classes should be inside a package.

package name convension is reverse domain name

com.masai.service
100   --- business logic
com.masai.dao
500 ---data base access code
com.masai.controller
400 --- controller flow

com
**   masai**
**   service**

first keyword using which we should start a java application :
package

type few charecter + crtl + spacebar

main + crtl+ spacebar

public static void main(String[] args)

Class and Interface : should start with capital latter . (PascalNamingConvension)

--any thing start with capital letter it would be either class or an interface (99 %)
ArrayList
InputStream

variable name, method name : should start with small letter and follow camelCasing

calculateInterest()
forName()

variable are 2 types:
java does not support global variable ----

it support only instance variable or class variable and local variable

example:

Demo.java:
----

package com.masai;

public class Demo {

        //static or class variable
        static int x=10;

        //non-static or instance variable
        int y = 20;

        public static void main(String[] args) {

```java
        //local variable
        int z =100;

        System.out.println(x);


    }
}
```

***Note: in java, local variable must be initialized before we use it.

```java
    //local variable
        int z;

        z=100;

    System.out.println(z);
```

example :

Demo.java:

```java
package com.masai;

public class Demo {



    public static void main(String[] args) {

        int marks = 500;

//        if(marks > 600)
//            System.out.println("First Div");
//        else
//            System.out.println("Second Div");


//        String result = "First Div";
//
//        if(marks < 600)
//            result="Second Div";
```

```java
//
//              System.out.println(result);


                String result = (marks > 600) ? "First Div" : "Second Div";

                System.out.println(result);


        }

}
```