**JAVA**

**WHAT IS JAVA ?**

Java is an object programming language. OOPS – in which we create a class and objects.

With JAVA, can create Mobile Application,Web Application,Desktop Application etc.

**PRODUCT**: JAVA was product of Sun Microsoft, but now it is product of Oracle

**TYPES OF JAVA:**

Core JAVA

J2SE

J2EE ( Enterprise Edition)

**SYNTAX:**

Public class java{

public static void main (String[] args){

}

}

**Public – modifier | class – keyword | java-classname**

**Classname Naming Convention:**

1. Class name should not starts with number , space, specialcharacters

public static void main (String[] args){

}

**Public – modifier | static – we can access the method without creating any object of that class because main execution starts from here | void – no return type | main- method,main execution start from here | string[] args – pass the arguments of string array**

**Program will not be execute with this**

JAVAC – JAVA COMPILER

JVM - Java Virtual Machine

Firstly java file compiled by the JAVA complier and create .class file, then .class file execute on JVM.

In Editor Ecllipse , program complie along with code and displays the error and when click on RUN, file directly run on JVM.

It creates the .classpath file automatically when program execute. And compile file save in bin folder.

**WHY NEED PSVM ?**

When file execute on JVM, firstly it finds the PSVM (public static void main) in file,if it doesnot find the PSVM in file, it will not execute any code.PSVM execute automatically.

Eg. If in one project have 100 classes, then atleast one class should have one PSVM to execute the file.

Its not necessary to write PSVM in each file.

To Print on Screen - System.out.println() - for new line.

System.out.print() - in sam eline

Concatination in JAVA with ‘+’ .

**COMMENTS**: - Multiline Comment: ctrl+shift+/ (comment) | (uncomment – ctrl+shift+\)

Single Line – ctrl+/ (comment/uncomment)

**VARIABLES IN JAVA:**

Variable to store the value of any datatype.

**Syntax: datatype variablename;**

**SCANNER CLASS:**

Scanner class used to take the input from the text field

**Scanner scan = new Scanner(System.in);**

**Syso(“Please Enter first no.”);**

**Int a = scan.nextInt();**

**STRING:**

**String Functions:**