Basic Comepts of Java

(i)

JVM - JRE - JOK.

- · What is fava?
 - Java is a flafform indépendnt language.
 - Highly Johnson abject Oriented Programing.
 - Java Portability [WORA]

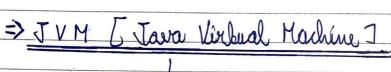
Write aux, Run Anjuhere.

-> 3 main components cof Java

1. JVM 5 Java Virbual Machine J

e. JRE 5

3. JDK C



2 > Abstract Machine



JOR

CAbstract: Doesn't exist Rhysically J

- · JVM has [J] T nompliler]. Just in hime.
- C.) . JVM is la virbual madine blat enables la computer la vince java programs as well as programme willen en oblier danquage. That are also compiled be java bytecode.

-	How Java	Works				
	1	> Compiler	\rightarrow	Ryle Code	→ JVM	1 -> Machine Code
	JVM M Any JV JVM va	akes java 111 uan v	, b	autoun Lablorm	No. of	- CPU
	JVM va	w run w		n(i → → → P	Wribben Converbs un bhis	uode in Mobile ib in Tyle Code into any JVM
J	ava Brogra	м —	· · · · · · · · · · · · · · · · · · ·	180	Windows	Rytecole
1.7	, Dame . J		7 D			e Dame o class
	_	JRE [Jan	as Runs	bime I	incoment] >
[•]	• JRE	d has J	VM Class	Librar	y -	

[0] · Class librariles
L> java Malh &;
java . intel x;
[.] . JRF is a combination of JVM and library.
3 JRF GJava Rubine Environment 7
TRE
JVM libraries (JVM)
Tight He was the form
[.] · If you have TRF you can run any Java program or any Rybecode.
D. A. Marian Color M.
But you cannot code ût.
[.] · You can not have comby JVM.
Ly Use to the TOT -
L> Hure do de JRE. JVM will be fourb of JRE.
your of 110.

= JOK 5 Java Debelof	ment Kil] ->
[0] · From JDR we have language.	e foregramming
50: System. con	d Jarinthu C);
Thus fleabure is present sub Jeib T Falo Dame	únho java developu gava]
[0] 6 JOK has nompliler	5 jourax J
o java -> javard	-> alass
[0] · JOR has Debugger.	
Ci) JOK = JRE +	+ Compiler
	+ Debugger and so on
[JVM JOK JR6]	-> Plabform Dependent

[Java Code -> Bybecode] is Elaform Independent

< J86 , J86 , JM6 →

- JSE (Java Sbandard Edibion]
- JEE C Java Enberprise Edibion 7
- JME 5 Java Micro/Mobile Edition]

[0] J85 -> Core Java.

[J JEE ->

JSE + April

Transchional API [Roll Rock, Commit,

Suveles, JSP]

JEE -> Large Scale a-commerce websites

[0] JME -> API for Mobile Edilions.

< First Java Program >

eman seals = = class mane

[-] 1 file only 1 feeblic class

[0] main () is the starting fount of the Programme.

Java -> Compile -> Type Code -> JVM Brogram La Calls main C)

C.J. o public stable void unain () Called from class mame First ulass ualled by · fublic -> a program, a method, a variable can be provoke from anywhere. · static -> You can directly carress it