## Assignment 1 Search About Java

```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\pooja\Desktop\project\AUG24-CDAC\Day3-CDAC\SECTION 3 Lamborghini Exercise>javac Hello.java

C:\Users\pooja\Desktop\project\AUG24-CDAC\Day3-CDAC\SECTION 3 Lamborghini Exercise>java Hello
Hello World!

C:\Users\pooja\Desktop\project\AUG24-CDAC\Day3-CDAC\SECTION 3 Lamborghini Exercise>
```

-	Assignment - 03/09/29
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1	to tansidinia batter was senot
-	Idva was that developed win lags to
	team of engineers at the mountain
111	Tava was that developed by in 1991 by team ob engineers at 500 microsystem.
	Total and all the sun and and and
Theli	technology compounds
51	in such pages 4 run directly within
100-	arter project - it was intermed assist
	THE THEORY STEELS OF THE PARTY
110.	binding new opportunities in the Consumers electronics inclustry.
01	Consumere electronics inclustry.
(10)	Java was originally oreated as a part ob this project to run on this derices.
() (	ob this project to run on this derices.
	917
-	Green Team -
	[ James Grosling, Patrick Naughton, mike strends
	10 C UT.
	"Father of Java" mills and some
	te hardynase Company, alequired sus
*	The original language named Oak, was
	lator rename to java in 1995
-	The name java was inspired by Java cobtee.
*	The "x7" Device (1992) -
	In 19992 the team developing java
	created of device Called "+7" +0
	show how their new teannology could
(80)	cortain smont gadgets.
20*	show how their new teannology could work in smoot gadgets. Failure of "*7" - Time - warmer declined
	to use rava for their set top boxes t
	to use java for their set-top boxes to video - an-demand sorvice.
	- Juce

\* Breakthrough with the web (1999) -In 19994, jova gained significant attention when team developed a web browser Called webRunners This browser had unique ability to myn applets, -) [applets - is a small Java progreim], that could be embedded in web pages 4 run directly within the browser. It was major breatthough. \* First public Implimentation - Java 1.0 in Java 1.0 was the first official version of java made available to the public in 1996, \* Acquisition of java - In 2010, Osacle Corporation, a major software thardware Company, acquired sun miorosystems. \* 5/0gan. -> "write once, Run Anywhore". Java's slogan highlights its most powerful features of Platform independent It means Java program run et one platterm (like windows) it can run on any other platform (like linux or macos) without needing modification, as long as platform has Jum installed

2		Date Page
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		Javel Virtual Machine [JVm]
		when war write code, it gets compiled into bytecode, which the sum can interpret t execute on any device tos.  This makes joing platform-independent.  Automatic memory management-
ion		into bytecode, which the sum can interpret
Y		+ execute on any device + 03.
		[nis relates joing platform-independent.
	*	Alternatic memore management -
d	100	Java handles process memory m automotically
h		Java handles process memor m automaticity trough process called garbage Collection.
n.		Horigin has is - muileam at theme
7		to to record to harden to 37 and (c
	PW	2) Java EE - Oxtended vencion at Ja
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	1 100 10	LOTTER-ELALE, web - based Opping
		and the real to the state of th
	130	(2) used for - Developing enterprised
	1 pry	and brano 20 and amportan
		Jange-Boak ulb services.
		111111111111111111111111111111111111111
		3) Java ME (mimo Edition)
		A version of gava designed to
	The Pipe	mobile tembedded devices with
ant		76500mees
		-2 Chan partialand - wall beet
		Carontehanes to blots of capital
		Comontphanes, tablets temalapping like 20 olevices
)		

1		-
	> Java Editions -	
key comes now to s	The Core version of java that includes the basic libraties + tools needed bor general-purpose programming.  Java apply programming Interface (APII + Them)  Used for - Developing desists pappications Command line tools,  Small to medium - sized applications.	
2)	Java EE -> Extended version of Java SE, with additional librareies & braneworks designed for building	
rey emperants	large-scale, web-based application.  Southers, JSP, Filter, JPP, JTA, JMS, 757B, JSf, Java mail  Used for - Developing enterprise-level  applications such as online banking  systems, e-commerce platforms +  large-scale web services.	
	Java ME (micro Edition) A version of java designed for mobile tembedded devices with limited resources	
	Used for - Developing apply for Smartphones, tablets tornal appliances like 207 devices.	

Java St - Basic Java Programming Java EE - Enterprise lovel application Java ME - mobile + empedded devices Itisused for building nich modern user interfaces for desictopappi Java Cound - used bor doveloping appr bor smat and & seure ties I) Java lan is both, technology as well as platterm.

Is not only programing language is
a platterm that provides runtime enviroment (the Jvm) where java program

Can be executed. 2) Java's steindardizection is managed through the Java Community process. 3) Extension of Jawa Borne tile java - These biles are written by developers 4 are compiled into bytecode by the Java Compiler + 101200 - 11 pridant 4) Java is object oriented but also support procedural + tunctional programming parddigms. provided the tools need 5) Java is statically typed lang. It means type checking is doneat compile time 6) Java is caso-sensitive lang. Java, Katlin, scale, Groovy are some one Jum beis these languages one desined terrun on Jum. They can use Jova labrarie + tools

what is API-API - Apply programming Intorbace It is set at tools + projecul that allow dibbosent software appr to communicate with each other. Java version -Te not only preguing forest Java 8 - Lung term support Java 11 Jana 17 Java21 \* SOK -> Software development kit -> it is collection of tools, libraries, documend & sample code that developers use to Greate appir ber specific platform. It includes every thing needed to comte, compile, test + debug software making it easier 4 tactor to develop appn. \* JDK - CJang development kit) -It provides the tools needed to unite Compile + run java code.

Miting code - JOK includes text editor + other

tools to write Java code Compiling Code - The java Compilor (Javae) Converts your uniter code into. byte code, which can beaun



