Java is a programming language and a platform Any hardware or software environment 9n which a program rine 9s called platform. Desktop Application (Acrobat Reader, Media player) 2) web Application 3) Enterprise Application (Banking apps) 9 Mobile 5 Embedded System 6 Smart Card 7) Robotics D'Games Types of Applications D Standalone application Also called as Desktop application or usindous - Based applications. 2) web Application An application that mins on the server side and creates dynamic page is called web Application. 3) Enterprise Application Je es useful in Banking operations for tright level Security, Load Sharing EJB - Enterprise Java Base Blang.

				Date	
(D)	Mobile Ap	Dication			
	Android	and Java ME	LJavap	latform 1	Cicross
	The space				
10	write in	Brief the H	istory of	Java?	_
Aus!	M Tayardea	- mounter	alon Bros	ilis al C	1 seen
3	team, de	velope a such as s	language	for dig	79tal
	devices !	such as s	et-top box	(es, Te	levision
1	etc.	1 - 1-14			10
<b>@</b>	) cursently	, Java is u	led in r	nobile	Levices
	interne	t programme	ng, gar	nes aind	e-
	busines	s solution	etc.		
	(a) Jan	es Crosling	1		
	(6) Park	e Shiridan		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	C) roto	ick worton	Naughton	1991/7	100
6		Jeva rese			
9	Towards	alling and	as and end	e dia l	24
(U)	latizen.	Osling and	alled al	C DAK	OAK
9	is a su	mbol of s	trenette (	and cho	sen
	as a r	mbol obsertional comes Gosling	witry 20	many	eountale
<b>(5)</b>	Acc. to Jo	mes Gosling	JAVA	was one	Of the
25,000	top choic	es along.	with sil	R. Since	, JAVA
-	was unio	que so mos	t of the	e team v	nembers
	chosed	HU HA THE THE	ri ya ya la		
	Orginally	developed v	by Jame	e Golling	, at
	Sun Me	obsystem u	ohich is	nous so	bsidior
	of Ora	cle coop.	, Illease	d in 19	95
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	JAVA Ve	wion Histor	ty	11 11 4	
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	JOK (Java Dever Kit)
	J2SE (Java to Standard Editis) Page No
	Coole Date Date
	JDK & & B (1995)
	1 0 / 202d7 1991 Dah
<u>@</u>	JDK 1.1 (19th Feb, 1997)
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(5)	J258 1.3 (8th May, 2000) - Kestsel
E	JOSE 1.4 (6th Feb, 2002) - Merlin
( <del>9</del>	
A	
Q	
N (Té	JDK 20013
1 0	
	Feertuses of Java (Java Buzzusonds)
->	Simple
	Object-oriented
-	Platform Independent
	Secured
->	Robust (strong)
->	Architectured Neutral
	Portable
	Dynamic
	Interpreted
	Hegh performance Multi-threaded
	Distributive
, ,	Simple
<b>D</b>	C. 12 22 1/2 00 6080 22 1/30 1/1
<b>2</b>	It semoved raisely used feactures like explicit pointers, operator over loading
	explicit pointers, operator over coading
_	
3	No need to semove unseferenced object
	because there is outomatic garbone
	collection in JAVA.

		Page No	
		Date	
	Object Oriented		
	Object eras 3 main characteris	tics:	
	(1) Identity		
	(2) State	1 -	:
	(3) Behaviour		- 3
dentid	4. Thename associated with 06	j. hel	PSIA
	identifying the Object.	. 3 m.	107.
Steete	: The state of an object.		+
elau	our: It means what the object	08 006	at is
	capable of doing.	1.1	Tal
	Data Abstraction & Encapsulation		
	Encapsulation ?? a may of c	ombini	ng dal
	and Lunctions into an ind	Dender	4
	entity et called class.	1 100	1 1
	classica clater type and it ca	n be u	sed to
	create objects of 9+5 type.	1	17.
	Basic concepts of DOPS are:	r kana	
(	a) Object	1 1 1	1
(	b) class	, , , , , , , , , , , , , , , , , , ,	-
	c) Inheritance	1	7
	d) Polymorphism	1.1.	
	e) Abstraction	1-147	
	f) Encapsulation	- 33	
-   '		YM I	
2	Platform-Independent	!	
	It has 2 components:	1,	
	D Runtimo Forotron mont.	2.50	
).(	2) Application programming inte	rface	(AP)
		J	

	JUM- Java Virtual Machine	
	Juni	Page No.
		Date
	Tallana Dila	
	class file	
	windows Linux Macos	
	JUM JUM JUM	1
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	windows   LINUX   MAC	7 2
<u> </u>		
	Java code is compiled by th	e compiler
	and converted Porto byte code	es estat
Note:	Java code le compiled by the and converted Porto byte code Byte code les a platform- endep	endent Code
	because it can sun on mul-	tiple platfor
. ~ 6	1. e WORA CWATE Drue Run ever	ryuchere)
		U
4	Secured	
<b>→</b>	No explisit pointers	<u> </u>
	Programs sund inside virtual M	achine Box
-	Bytecools verifies checks the co	de foagments
	Los Illegal Code.	
$\rightarrow$	security manager determines we	hatsesources
	a class can access the si	ading or
	verêting to the discete.	Carlo Ca
7		1
9	Robust	
_	Lack of pointies avoids secus	gement.
	Cock of pointers avoids secur	may problem
	Huromatic gertoige collecti	on.
	theption remaking, up ch	ecking.
	mechanism etc.	U



