of your system

line

developer

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SACE / / Difference beth JDK, JRE & JVM JOK - Jok is a kit that provides the environment to develop of execute the Javo program. JDK includes 2 things - development tools & JRE JRE - JRE is on installation package that provides an environment to only run the java program onto your machine. JRE is only used by those who only want to our java programs that are end-users JVM - JVM is a very important part of both JDKRIRE because it's inbuilt in both. Whatever Java program you run using JRE or JPK goes into JVM & JVM is responsible for executing the Javo program line by hence it is also known as interpreter. what is JIT compiler. Just in time compiler is on essential part of TRE. It is responsible for performance optimization of java based application at run time. The compiler is one of the key aspects in deciding the performance of an application for both porties lesthe end user + the application

	PASE No.
	DAY
9	What is class loader
in mark	Class loader is a port of IRE that dynam
	loads Java classes into JVM. Jovo classes
100	are loaded in memory when required by applic
	The javo class loader is called by the JRE + these
	Class loader loads classes into memory dynamical
	Todas Cass Trip
5 *	Types of class louder-
3 12 11 - 1	Bootstrap classloader - Bootstrap classloader in a
	machine code which starts the operation when
	Jym calls if
, et	The state of the s
Let.	Extension classloader - The extension class loader is
	child of Bootstrop classicades of loads the extension
1 1 1 2	of core java classes from the respective JDK
	CARCINSION HORATU
	201
	System classicader - It is also called application
	class louder. It loads the application type
9 1 / .	Classes found in the environment variable
	The application class loader is a child class of
	extension class loader.
0	
9	Explain vorious memory logical partitions.
	M. Company of
	Memory management techniques -
	CDOPP.
	2) Non-Contiguoas

EATE / /

contiguous con be classified as 1) fixed portitioning (Static)

- 2) Variable partitioning (dynamic)

fixed postitioning - In this postitioning the number of postitions in RAM is fixed but the size of each partition may or may not be the same It is configuous allocation no spanning is allowed Partitions are made before execution or during system configuration.

Variable partitioning - In this method initially RAM is empty and partitions are made during the according to process need instead of runtime postitioning during system configure. The size of postition varies according to the need of the portition so that internal fragmentation process avoided.

Non-configuous Memory allocation- In this method operating system needs to maintain the table is called page table. The different posts of a process are allowed to different places in memory. Spanning is allowed in non-configuous allocation.

Types of non-configuous alloredion-

- 1) Paging
- 2) Multilevel paging
 3) Inverted Paging
 4) Segmentation
- 5) Segmentated Paging.

Jovo?

What gives java its write once & run anywhere nature

P

The bytecode generated by the compiler is not platform specific and hence takes the help of JVM to run on a wide range of machines so we call Tova program as write once + run anywhere nature.

9 Explain History of Java? who invented Java?

Jova was invented by James Gasling, Potrick Naughton, Chris worth, Ed Frank and Mike Sheridan at sun microsystems, Inc. in 1991.

Java is related to C++ which is inherited from
the language C. The characters of Jova is
inherited from C f C++ language. It took
approximetly 18 mooths to develop the first
working version. It was first named as
"Oak" but was remamed as "Java" in 1995.
The basic idea behind creating this
language is to create a platform independent
language that is used to develop software
for consumer electronic devices such as
microwove oven , remote controls etc. initially
it was not designed for internal application



	tare / / /
\$	What was original name of Java? why it was
	Manged?
	The Jova language was initially called ook.
	the out the stood outside Gostina's office
	later the project went by the same come of
	coas finding renomed have toom have coffee a
	type of coffee from indonesia.
9	List features of Jova.
	1) Platform independent
	2) Object oriented programming language
	3) Simple
	4) Robust
	5) Secure
	6) Distributed
	7) Multithreading
- 1	8) Portable
	9) High Performance
	16) Dynamic flexibility
	11) Sandbox execution
	12) Write once run anywhere
	13) Power of compilation & interpretation
g	Vorious Datatypes in Java.
	Andrew to the control of the second of the control

		PAGE No.
	Data types	s in Java
	/	
	Primitive Datatype	Non-PrimitiveData
		- String
	11/2/2016/10	- orra
B	polean Numeric	A Company of the Comp
25 9 5		
boolea	0	and the state of t
	character Integral	
	Char	Tana Kabana
	Integer float	ing Point.
	by te -	Float
	- Short _	double
	- Int	
	Long	
		4-100 19/30 300 50
		(ath mathematic
9	what is difference be	tween
	System.out. print	and the second of the second
	System-out println	and the state of t
	0 11	
	A Comment of	and the property of the second
	system. out. println	System. err, printle
	Print standard out of the	will print standard
	System	errox 2100001d
	used to display result.	used to output error texts
	output on the console with	output on the console wit

FACE NO CATE / /

9 How is sava platforms independent.

Jova is platform independent because it uses a virtual machine. The Java programming language and all APJ's are compiled into bytecode. Bytecodes are effectively platform independent. The virtual machine takes core of the differences between the bytecodes for the different platforms.

M

Q What is bytecode? How is it different from machine code.

Byte code - A byte code acts or an intermediate code present between a machine code and a source. A byte code is basically a low-level code that results from the compilation of source code that might be present in a high-level language. Jym processes bytecode.

Machine cannot understand a bytecode. It is a non-runnable type of code that becomes machine understandable after an interpreter translates it into a muchine code, one needs to compile it to run on a JVM. Thus any system that already has JVM can easily run such a code irrespective of the Os. Therefore Java is Independent Bytecode also colled as portable code.

The difference beth byte code fractine rode is byte code is intermediate code while the machine code is the final code that cpu processes

	PAGE No.
P	What is difference beth Jorfile & runnable Jan
-	= alcation which trous
-	Jor file is a Java application which requires
-	a command line to run.
	A runnable Jar file can be directly executed
-	by double clicking it.
- 1	
O	What is diff. beth Runnable jar file f executables
-	vonat 13 ditt. Oct Rainios, g
	An exe file in an executable file that can be
-	executed in microsoft as environment.
	Jos file is container of Java Flass files, including
	other resources related to the project. Jor file
	can be executed only if sava run time
	environment.
1-	The state of the s
	How is C platform dependent language
	c 1s longuage is not platform inappendent
	language, the compiler generates an exe fle
	which is as dependent. When we try to run
	the exe file on another as it does not
	run since it is os dependent & nence is not
	compatible with other 6s.
9	What is difference beth path of class path
- 100 m	
===	
Burness and the same	

FACEN	1	-	7
nere	1	1	- J

	Path Clase Path
1)	A environment variable is An environment variable is used by the operating used by the Toya compiler
	system to find the executable to find the path of classes
	Classes
2	Path setting up an environment (bespath setting up the
	for the operating system environment for Java. operating system will look in Java will use to find
	operating system will look in Jova will use to find
	this path for executables compiled classes.
3	Refers to the OS Refers to the Developing
	Environment.
4	In path voriable, we must In class path, we must place
	place . Ibin folder path . Ilibliar file or directory
	path in which java file i
	available.
5	Path is used by CMD prompt classpath is used by the
	to And binary files compiler & JVM to find
4	library files.