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what is difference bein JAK, TRE & JVM.

JDK: jJDK is an abbreviation for java Developement kit: #) It is an environment of software development user for developing applets & java applications.

iii) IDK has a physical existence, & it contai-

ns JRE+ developement tools.

TRE > i) TRE Glands for Java Runtime Environment also written as Java RTE.

ii) It is sex set of software tools designed

for using other software.

provides a nuntime environment.

journal of java virtual Machine . It provides a suntime environment for driving Java applications or code.

ii) Jvm is an abstract machine that converts Jawa bytecode into machine language iii) Jvm is an essentially part of JRE JVm does not exist physically.

g.2. what is JIT compiler.

TIF compiler helps improve the performahe of java programs by compiling bytecodor into native machine code at runtime. The JIT compiler is enabled by default. The java class loader is a part of the JRE that dynamically loads the java classes into the JVM.

classes into the class loaded on demand.

Usually classes are loaded on demand.

The java runtime system does not need to

Know about files & file systems as this is

delegated to the class loader.

Q.4. What gives java its " write once & sun anywhere nature".

In Java, when code is compiled,

executes a hytercode (class file), which can be

sun in machine which can be sun in any

which supposts JVM. so once compiled it

doesn't sequise secompilation at every machin

is suns, java JVM converts the bytecode

to be understood by the underlying hard
ware & it is the hatere which is called

"Write one & sun anywhere".

Q.5 what was the original name of java quhy

=

Because It was senamed because

- i) Oak is symbol of strength & chosen
as a national tree tree of many contries
like the U.S.A. France, Germany, Romania.

- In 1995 Oak was senamed as java
because it was already a trademark by

Dak Technologies.

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=> print() retains the cursor in the same line after printing the argument while println() moves the cursor to the next line

System. exa. printin() will print to the standard exror & system. Out printen() will print standard output.

Q.9. How is java platform independent.

it uses virtual machine

ApIs one compiled into bytecodes bytecodes are effectively platform independent.

Q.10. what is byte code & how is it different from

Bytecode > bytecode is the intermediate

code compiled & executed by a vistual

main différence is

- bytecode is an intermediate code. & machine code is the final code that

g.11. What is difference beth jox file & sunnable

Jax file is a java application which xequires a command line to sun, A sunnable jax file can be directly executed by double clicking on it.

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a.12. what is difference beth path & classpath. The main difference is that the Path is set for java & javac which are used to compile your code whereas classpath is used by system or Application class loader to locate & load compile java bytecodes stored in the classfile.

9.13. HOW is platform dependent language.

It is not tied to any horse upone

c' is platform dependent because the c' compiler generates a machine code which can be understand by the sespective platform so it is platform dependent

Q14. Explain history of Javas who invented javas => i) James Gosling, Mike Shendan & Patrick Naughton initiated the Java language project in Tune 1991. The small team of Sun engi-heers called Green team.

2) Initially it was designed for small. embeded systems in electronic appliances like Sel-top boxes

James Gosling, and the file extension was

1 After that, it was called Oak & was developed as a past of Green project. "Java" because it was already a tradem-

ask by cook Technologies

Page No. . Java invented by "James Gosling" in 1995 Explain Various memory logical pastitions. Q.15. - Memory partioning is the system by which the memory of computers can be divided into sections for use by the resident programs. memory can be pastitioned as ) Fixed, y Variable & 3) dynamic - i) Fixed pastioning creates memory postition of identical (sizes. 2) Variable postioning offers more flexibility because it executes postition of varying S1285. ns of the sequired sizes requested by the programs respe.