| | Assignment No. 2 | | Dale: / / |
|---|---|--|--|
| - | V | The park with | 120 E 211 (0 |
| 4 | JOK | The same of the sa | JVM |
| 1 | of Jok is | Java Runtime | of JVM is Java Virtual Machine |
| | Jokis a software development kit to develop applications in Java. | bundle which | |
| ~ | 1 t is the superset of JRE | 7+ is subset | subjet of JRF |
| | J DK romes | 1+ contains class libraries and other and other supporting files that JVM requires to execute the program JREONY contain environment to execute source code | development to obsar not included in |

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-GOPI

Page No.:

-GOPI-Page No.: Date: / / The Just - In - time (JII) compiler is a component of the runtime environment that improves the performance of Java applications by compiling byteroder to native machine code at The Java class Loder is a part of the Java Runtime Environment that dynamically loads Java classes into the Java Virtual Machine. The java run time system does not need to know about files and file systems because of classloaders. Java classes aren't loaded into memory all at once, but when required by an application. At this point Java class loader is realled by the JRE and there classified toad clave

A logical partition (LPAR) is the division of a computer's menory and storage into multiple sets of resources so that each set of resources can be operated independently with its own operating system instance and applications. I more

into memory dynamically

oun time.

The no. of logical pactions are wea for different purposer such as database appearine or client/server operation or the reparate test and

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production environment.

3) Each partitions can communicate with the other partitions as if other partitions is in a separate machine

JVM (Java Virtual Machine) acts as a run-time ergine to sun time engine to ru Java applications. JVM is the one that actually calls the main method present in Java code. JVM is a past of the JRE (Java Runtime environment).

Java applications are called works

(Write once Run anywhere). This means a

programmer can develop Java code on or

system and con expect it to run or any
other Java - enabled system without any
adjustment. This is all possible because
of JVM.

1 deals an Object - Oriented programming language developed by James Grosling in early 1990s. The team initiated this project to develop a language for digital devices such as set-top boxes, television, etc. Originally, cit was considered to be used in the project but the idea was rejected for several reasons Gastling endeavoured to alter and expandent however before long surrendered that for making another stage called Gireen.

James Gosling and his team called their

Page No.: GOPT-Date: / / project "Greentalk" and its file exterin war of and later became to known or OAK! Later They renamed as Java Java was created on the principle like Robust, Portable, Platform Independent, High Performance, multitu etc. Currently, jara is used in games, e-business solutions, etc. The original name for Java was Oak created in 1991 by James Gosting He ramed it after an oak tree in front of his office. Oak was renamed in 1994 as Java as it was found that a company carried dak technologies was already registered with the name. The primary objective of Jorg programmin language dreation was to make it portable, simple and secure programming language, months Apon from this, there are also some execulent reatures which are 1) Simple Object - Oriented P0070ble Platform Independent Secured Rob urt Architecture neutral

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| | 3) trigh performance | Crecy of the con | | |
| 100 | 10) Multipleaded | Shight or while | | |
| BAR | 11 DISTIBUTED | 110011 | | |
| 149033 | 12) Dynamic | | | |
| - | The deserve of and deides ob as | | | |
| 9) | There are two types of data types in Jan | | | |
| 341 | 1) Primitive data types: The p | ninitik | | |
| ab Ip | dota typer include booleon | , char, | | |
| hoi | byte, short, int, long, float and double. | | | |
| 30.92 | double | the state of the s | | |
| 11/1 | Teban Revision boo abox months with the | | | |
| 31.3 | 2) Non-primitive data types: The non- | | | |
| - | primitive data typer includ | e classes, | | |
| 21361 | interfacer and Arrays, etc. | Institute | | |
| 166 | sucted and print of the thir are | can print | | |
| 10) | system.out print > in this, are but the printed data is in t | he same | | |
| | line, | | | |
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| 1 | lagrangagad and and the tol. tol ing | | | |

11) Java longuage was developed in such a eway that it does not depend on any hardware or software due to the fact that the compiler compiles the code on then converts it to platform - independ byte code cohich can be run on multiple systems. 12) Java bytecode is the instruction set for # Java virtual Machine. When java progra is compiled, java bytecode is genéraled. Bytecode is an intermediate code between the source code and madine code !ti processed by JVM.

It is different from reaching code. Machine code is a set of instryction that is directly machine understandable and it is processed by the Central processing Unit (CPU). the difference between a JAR file and a
Runnerble jar file is that a JAR file
is a Java application which requires a
command line to run, a runnable JAR file can be directly executed by double An ere file is an executable file that
can be executed in Microsoft as environme
Tar file is a container of Java class files, including other resources related to
the project. Jar file can be executed only
in Java run time environment

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