

***Basic Java Lab Exercise Day-1 Duration: 2 Hours***

***Short Answer Questions***

***Find out the result***

**Q) Who invented Java language?**

A) Dennis Ritchie B) James Gosling C) Larry Page D) Serge Page

**Q) What is the output of Compilation of Java Program?**

A) .class file B) .cla file C) .jc file D) .javax file

**Q) What does JVM stands for?**

A) Java Variable Machine B) Java Virtual Machine

C) Java Virtual Mechanism D) None of the above

**Q) What is JIT in Java?**

A) Java In Timer B) Java In Time Thread

C) Just In Time Compiler D) Just In Time Runnable

**Q) Choose the correct statement about Java?**

A) JIT Compiler produces Byte Code from Java file.

B) JIT Compiler takes chunks of Byte Code as input and produces Executable code on that particular machine.

C) JIT Compiler assists the actual JAVAC compiler to compile fast

D) None of the above

**Q) What happens in the absence of JIT Compiler in Java?**

A) Byte code is produced slowly

B) Executable Code is produced slowly because of line by line Interpreting

C) Executable Code is produced without portability

D) None of the above

**Q) What is the Java command used to compile a java program from Command Line or Command Prompt or CMD?**

A) >java hello.java

B) >javac hello.java

C) >javacomp hello.java

D) >javacmd hello.java

**Q) What is the command used to Run a Java program form Command Line or Command Prompt or CMD?**

A) javac hello

B) java hello.class

C) java hello

D) java hello.java

**Q). Which component is used to compile, debug and execute the java programs?**

a) JRE b) JIT

c) JDK d) JVM

**Q). JDK stands for \_\_\_\_.**

A) Java development kit

B) Java deployment kit

C) JavaScript deployment kit

D) None of these

**Q). JRE stands for \_\_\_.**

A) Java run ecosystem

B) JDK runtime Environment

C) Java Runtime Environment

D) None of these

**Q).What makes the Java platform independent?**

A) Advanced programming language

B) It uses bytecode for execution

C) Class compilation

D) All of these

**Q). Multiline comment is created using \_\_\_.**

A) //

B) /\* \*/

C) <!-- -- >

D) All of these

Q). What is the entry point of a program in Java?

A) main() method

B) The first line of code

C) Last line of code

C) main class

**Q). Which of the following is the correct syntax to create a variable in Java?**

A) var name;

B) int name;

C) var name int;

D) All of these

***Coding Programs***

***Program: 1***

Write a Java program to find out the sum of digits of the given two digit number.

For example, input: 45

Output: 9

***Program: 2***

Write a Java program to find out Define a method the next multiple of 100 for the given number.

For example: input: 123

Output: 200.

***Program: 3***

Write a Java program to find out the sum of three numbers after rounding off each number to the next multiple of 10. If any of the given number is multiple of 10 don’t change its value

For example, if a = 23, b = 34, c = 69

30 + 40 + 70 = 140

if a = 23, b = 34, c = 50

30 + 40 + 50 = 120

***Program: 4***

Define a method which returns the sum of three rounded numbers. If the right most digit of the number is less than 5, then round off its value to the previous multiple of 10 otherwise if the right most digit of the number is greater or equal to 5, then round off to the next multiple of 10.

For example

if a = 23, b = 34, c = 66

20 + 30 + 70 = 120

if a = 23, b = 37, c = 55

20 + 40 + 60 = 120

***All the Best***