



PROGRAMMING IN JAVA

Assignment 1

TYPE OF QUESTION: MCQ

Number of questions: 10

Total marks: $10 \times 1 = 10$

QUESTION 1:

What is the primary focus of Java programming?

- a. Low-level optimizations
- b. Hardware-specific operations
- c. Platform independence
- d. Assembly language programming

Correct Answer:

- c. Platform independence

Detailed Solution:

Java's primary feature is its ability to run on any platform without modification, thanks to the concept of Write Once, Run Anywhere (WORA).



QUESTION 2:

Which of the following programming principles is a key aspect of Java?

- a. Code obfuscation
- b. Platform dependence
- c. Object-oriented programming
- d. Global variables

Correct Answer:

- c. Object-oriented programming

Detailed Solution:

Java is designed based on the principles of object-oriented programming, promoting concepts like encapsulation, inheritance, and polymorphism.



QUESTION 3:

What is the last step in the Java programming process?

- a. Java Program Execution
- b. Java Program Editing
- c. Java Program Compilation
- d. C/C++ versus Java

Correct Answer:

- a. Java Program Execution

Detailed Solution:

The final step in the Java programming process is the execution of the compiled Java program on the Java Virtual Machine (JVM).



QUESTION 4:

Which of the following is NOT a Java programming tool?

- a. Eclipse
- b. NetBeans
- c. IntelliJ IDEA
- d. GCC

Correct Answer:

- d. GCC

Detailed Solution:

GCC (GNU Compiler Collection) is not a Java-specific tool. It is commonly used for compiling C, C++, and other languages.



QUESTION 5:

What does the term "Write Once, Run Anywhere" (WORA) imply in Java?

- a. Code reusability
- b. Platform independence
- c. Cross-compilation
- d. Dynamic typing

Correct Answer:

- b. Platform independence

Detailed Solution:

"Write Once, Run Anywhere" (WORA) is a key concept in Java, indicating that code written in Java can run on any platform without modification.



QUESTION 6:

In Java, what is used to store multiple values of the same type?

- a. Structures
- b. Pointers
- c. Arrays
- d. Lists

Correct Answer:

- c. Arrays

Detailed Solution:

Arrays in Java are used to store multiple values of the same type in a single variable.



QUESTION 7:

Which of the following is a valid identifier in Java?

- a. 123identifier
- b. _identifier
- c. #identifier
- d. identifier-123

Correct Answer:

- b. _identifier

Detailed Solution:

Identifiers in Java can start with a letter, underscore (_), or dollar sign (\$).



QUESTION 8:

What is the purpose of Java Language Subset?

- a. To limit the capabilities of Java
- b. To make Java code compatible with other languages
- c. To define a smaller set of Java features for specific purposes
- d. To enhance the performance of Java programs

Correct Answer:

- c. To define a smaller set of Java features for specific purposes

Detailed Solution:

Java Language Subset is a set of features tailored for specific purposes, limiting the use of certain Java features.



QUESTION 9:

What is the primary purpose of the Java Virtual Machine (JVM) in the Java programming language?

- a. Code optimization
- b. Platform independence
- c. Memory management
- d. Hardware-specific operations

Correct Answer:

- b. Platform independence

Detailed Solution:

The Java Virtual Machine (JVM) enables platform independence by interpreting Java bytecode, allowing Java programs to run on any device with a compatible JVM.



QUESTION 10:

What is emphasized during the Java Program Editing phase?

- a. Writing platform-specific code
- b. Debugging the program
- c. Compiling the program
- d. Writing and modifying the source code

Correct Answer:

- d. Writing and modifying the source code

Detailed Solution:

Java Program Editing involves writing and modifying the source code to implement the desired functionality before compilation.
