



J2EE / ADVANCE JAVA

MANUAL V8.3

MODULE CODE:

ANUDIP FOUNDATION





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Module 2: Fundamentals of Client Side Scripting and Introduction to Java IDE**Chapter 3**

Objective: After completing this lesson you will be able to :

- * Get familiar with the advantages of using IDE software for development.

Materials Required:

1. Computer
2. Internet access

Theory Duration: 120 minutes

Practical Duration: 0 minute

Total Duration: 120 minutes

Chapter 3

Advantages of Java IDE

What are IDEs ?

An IDE or Integrated Development Environment is a software application that offers powerful features for programmers to develop applications. The main goal of an IDE is to help raise the productivity of programmers. A typical IDE software comprises of -

- * a source code editor
- * a debugger
- * automation tools

Java IDE

Java programmers can use IDEs for faster and more efficient development. NetBeans and Eclipse are the two most renowned Java IDEs having their compilers and interpreters.

The Advantages of Java IDE -

- i) **Coding becomes easier** - The main motive behind using an IDE software is to achieve faster and easier Java development. The features and tools offered by leading IDE applications effectively reduce repetitiveness i.e. having to type the same multiple times. An IDE feature such as code completion makes variables and functions easily available without having to type their full names.
- ii) **Possibilities of errors are reduced** - Java programmers using IDEs like Eclipse or NetBeans make fewer errors during code compilation. IDE features for syntax checking can detect any syntax errors made by programme.
- iii) **GUI ensures better programming** - Java IDEs offer easy-to-use graphical user interfaces (GUIs) that enable more organized coding. Programmers can streamline the processes of writing, compiling, checking and interpreting code by accessing convenient menu layouts.

Instructions: The progress of students will be assessed with the exercises mentioned below.

MCQ (10 minutes)

1. An IDE is a _____ application.

- a) hardware
- b) software
- c) hybrid
- d) None of the mentioned

2. What can be developed with an IDE ?

- a) DBMS
- b) images
- c) applications
- d) None of the mentioned

3. The main objective of an IDE is to raise the _____ of programmers.

- a) speed
- b) productivity
- c) estimation
- d) None of the mentioned

4. Which of these tools does an IDE have ?

- a) debugger
- b) automation tools
- c) both a and b
- d) None of the mentioned

5. Does NetBeans have a compiler ?

- a) no
- b) yes
- c) only some editions
- d) only Eclipse has compilers

6. One of the important IDE features is code _____.

- a) completion
- b) division
- c) serialization
- d) None of the mentioned

7. IDE can effectively reduce _____.

- a) redundancy
- b) repetitiveness
- c) re-access

d) None of the mentioned

8. An IDE can help to check _____ while code is being compiled.

a) syntax

b) only variables

c) elements

d) None of the mentioned

9. Convenient menu layouts help to streamline code _____.

a) abstraction

b) compilation

c) interpretation

d) both b and c

10. Do IDEs have code checking feature ?

a) Yes

b) No

c) only available in Eclipse

d) in some NetBeans editions