

**Advanced Java Programming sample questions (for unit-4 to unit-8)**

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**Long Questions:**

1. Discuss about scrollable and updatable Rowset with suitable programming examples.
2. Explain the life cycle of servlet. Write a servlet program to take three numbers from a html form and display the multiplication table of the smallest one. Also write the contents of web.xml.
3. List the differences between Servlet and JSP. Write a JSP program to demonstrate how the values taken from html form is inserted into a database table. (Make necessary assumptions and mention them)
4. Discuss about socket programming using TCP and UDP in Java. Create a Java Program to demonstrate two way communication between client and server.
5. Discuss about of JAVA mail API in detail. Write separate Java programs to send email and to read received email with illustrative comments.
6. What is the significance of stub and skeleton In RMI? Create a RMI application such that a client sends an Integer number to the server and the server return the factorial value of that integer. Give a clear specification for every step.
7. Explain the architectures of RMI and CORBA. Write separate Java programs to demonstrate concepts of RMI and CORBA.
8. List the JavaFx Layout managers and explain them with suitable examples.

**Short Questions:**

9. How RMI and CORBA are different? Discuss about RMI architecture.
10. What is Java Mail API? How can you use this API to send email messages?
11. Create a GUI having radio buttons and a button in JavaFx.
12. What is CORBA? Explain it's architecture.
13. What is socket programming? Write java program that connects a client and server using TCP connection
14. What is socket programming? Write java program that connects a client and server using UDP connection

15. Explain about VBox and HBox Layouts in JavaFx with examples.
16. Explain how menus and submenus are created in JavaFx.
17. List the features of JavaFx.
18. What are JSP implicit objects? Write a JSP program to display some text multiple times using loop.
19. Discuss about session handling in Servlet with suitable example.
20. What is JSP? Explain about JSP access models.
21. What is JSP object scope? Discuss about different scopes in detail.
22. How JavaFx and Swing are similar and different? Write a JavaFx program to create GUI with hyperlink.
23. Discuss in detail about URLConnection class with important methods and their usages.
24. List the steps and code snippet to run "hello world" program using any Java web framework.
25. How Generic Servlets and Http Servlets are different? Write a servlet to take a string and display the reverse of that string.
26. Explain about JSP scripting elements like directives, declaration, scriptlet, expression and comments with examples.
27. What are cookies? Write a program to demonstrate the process of setting and getting cookies in Servlet.
28. Write short notes on:
  - a. Generic Servlet
  - b. Web Container
  - c. Application server vs Web server
  - d. InetAddress class
  - e. Socket and Ports
  - f. TCP and UDP
  - g. JSP implicit objects
  - h. JSP error page
  - i. Form processing in JSP
  - j. Form processing in Servlet
  - k. GET and POST request in Servlet

- l. Session and Cookie
- m. Deployment Descriptor in Servlet