JDBC Questions

1. Define JDBC, write the steps of JDBC and advantages of JDBC
2. Name few Drivers or Driver classes which are provided by different Database servers/vendors along with port numbers.
3. What are the specifications of JDBC? (\*)
4. Which factory/helper method is used to create the implementation object of following interfaces
   1. Statement
   2. PreparedStatement
   3. CallableStatement
   4. ResultSet java.ResultSet rs = getResultSet();
   5. Savepoint (\*)
   6. Metadata (\*)
5. What is the role of Place holder in PreparedStatement interface and CallableStatement interface?
6. How are all the data automatically saved into the Database Server? (\*)
7. Once the data are fetched from the Database Server , then where is it stored in Java?

Ans: It is stored in the form of object, created by defult constructor of that current class, where the concept of ORM is introduced.

1. Which method is used to save the data explicitly into the Database Server? (\*)
2. What is the return type for getxxx() and setxxx() -- void ?
3. Relate jdbc transaction with atomicity and explain.
4. What is the return type for setSavepoint()?
5. Define a Stored Procedure and explain the steps to execute a Stored Procedure along with advantages.
6. Whenever there is lack of information either with respect to DBServer or table, we have to deal with \_\_\_\_\_\_\_\_\_\_\_ ?
7. What is the value that executeBatch() returns?
8. What is the root tag for an xml file? (\*)
9. What is the current version of xml used? Is xml **case-sensitive** or case-insensitive?
10. Whenever the data exceepds the no. of placeholders or doesn’t match the no. of placeholders, what is the output? (\*)
11. Can we communicate from one application to another without using API? Mention few API’s (ans: yes,but tight coupeled. API’s: Apache POI, Jaxcel, JDBC, Servlets etc..)
12. What is the backbone for API? : Abstraction
13. What are the logics associated with factory design pattern?
14. Explain execute(), executeUpdate(), executeQuery()
15. Explain next(), absolute(). (\*)
16. Based on which concept the interaction b/w java application and DB server takes place?

(ORM)

1. Write a code for Login Validation.
2. Code to fetch all the data and unique data implementing collections along with basic steps of jdbc.
3. Write a code insert, update/delete a record from DB server.

Servlet Questions

1. What is a Server? What are the types of Servers? Name them.
2. Which version of JEE is currently being used?
3. How are all the configuration made in web.xml understood by the JEE container?

Ans: All the custom tags or user defined tags used in web.xml are transformated into an 8-bit Unicode format, based on which the configurations made in web.xml are understood by jee container

1. What is the root tag for loadonstartup tag?
2. What happens if loadonstartup is configured with a negative integer value?
3. What are the 3 different types of logic associated with JEE applications. Explain with an example.
4. Name the default welcome file/landing page loaded by the JEE container for the first time.
5. Define a servlet and explain the types of servlet.
6. Is there a service method present in http servlet and can it be overridden?
7. What are the types of http request and what are the contents of httpServletRequest and httpServletResponse?
8. Whenever the type of request is not configured then the default type of request is \_\_\_\_\_\_\_\_\_\_\_ ?
9. Is servlet single/ multithreaded? Explain.
10. What is the status message with respect to status code 404, 500, 200?
11. Total no. of objects created for an application:
    1. Total servlet objects for an application – ‘n’ no. of objects
    2. Total no. of servlet config objects after the servlet object creation – depends on total no. of servlet object created for that application.
    3. Total no. of servlet context object – only one with many references throughout the application.
12. What are the total no. of servlet objects created

for application – ‘n’ no. of objects,

for a servlet – only 1 servlet object

1. Define programmatic data and declarative data along with UI/form data
2. How to carry the data in a secured manner to the server?

By using post request where the data are carried to the server as a part of httpRequest body which is not displayed even to the enducer.

1. What are the data present in request, session and context object and what is the scope of all the 3 different objects?
2. What is the scope of config object? (Limited to a particular Servlet)
3. What are the data present in config object and context object and which method has to be used to fetch them?

Ans: The data present in config object: init parameter/ initialisation parameter, which can be fetched by using getInit parameter() along with reference of config object.

config.getInitParameter(key)

The data present in context object are context parameter and attributes where the context parameter can be fetched by using getInitParameter method along with reference of context object. Since the data are present in context object

ctx.getInitParameter(key)

1. What are the lifecycle methods of Servlet?
   1. init(Servletconfig) – called only once
   2. service(ServletRequest req, ServletResponse resp) – called many times
   3. destroy() – called only once
2. In how many ways destroy() will be called?

destroy() can be called in 2 ways

* 1. Whenever an application is closed, destroy() is called to close all the costly resources.
  2. At the time of redeployment of an application destroy() is called to close all the previously used costly resources.

With respect to 13. ServletRequest and ServletResponse object depends on no. of client request made for an application.

1. Explain servlet life cycle
2. Explain servlet chaining in detail.
3. Total no. of Servlets that one single Application can contain is \_\_\_\_\_\_\_\_\_\_\_ ?
4. Why is a class made abstract in spite of having only concrete methods in it?
5. Which method is used to fetch UI/form data? getParameter()
6. Difference between Server and Servlet.
7. Write a code for servlet lifecycle and explain in how many cases will servlet lifecycle begin?
8. Code for get and post.