

These Questions are set based on the Board exam questions, as explained by my students (Mouth of Word). So it can be useful for BE Comp. (Advanced Java Programming Syllabus), however, actual question in board exam may vary. Do not only depend on this question sets.

BE Advance java Programming Sample Question Set I

Any eight (8)

1. a. What do you understand by package? Describe different ways to create and use package. 5 marks
b. Does java support multiple inheritances? Explain. Differentiate between Abstract class, Interface and Java. 5 marks
2. a. Explain Exception handling in Java. Write a program which will fire an exception with message "Value cannot be less than zero" whenever value of any variable in try block is assigned less than 0. 5 marks
b. Vector is a dynamic array. Explain with example. 5 marks
3. a. Applet has some restriction due to security reasons thus it cannot do all works that a java application do? Justify with list of restrictions in Applet. 4 marks
b. Write an Applet program which will get four Parameters from html and draw rectangle with filled color red and line color blue. Also write HTML code to call Applet program. 6 marks
4. a. What is Servlet? Explain life cycle of Servlet. 4 marks
b. Write a Servlet Program where user will pass his/her name in textbox and server will return "Welcome <name>". <name> will be replaced with the text passed in textbox. 6 marks
5. a. What do you understand by Socket Programming? Write a program where client send a text message to server and server displays it in its console. 6 marks
b. What is socket programming? Write a program to display the protocol, host port and file components of a URL. 4 marks
6. Write a program to create following form in Swing and insert record in database when submit button is clicked. Use 'mydns' as Data Source Name in ODBC and customer (name, sex, interested_in as database table where name, sex and interested_in are fields in table. 10 marks

The image shows a Java Swing window titled "Customer Form". It contains the following elements:

- A text input field labeled "Name:".
- Radio buttons for "Sex: Male" and "Female".
- A section labeled "Interested in:" with three checkboxes: "Study", "Music", and "Games".
- A "Submit" button at the bottom.

7. a. Write a java program to get two numbers inputted from console and calculate sum of these numbers. 5 marks

b. Write a program in java to read content of text file and count number of lines in it. Display text in file and line counts in its console. 5marks

8 Write Short note (any two): (2 X 5 = 10)

- a. Java Bean
- b. Java Virtual Machine
- c. Date and Math classes

9. A computer with IP address 10.20.0.100 contain method called area (double height, double width). Write complete programs for both server and client so that client computer can call method in the server 192.168.0.100. When the client machine calls area method, it should display area of rectangle in client machine's console. 10 marks

10. Write a thread program which will display your name in one thread and your address in another in every 500 milliseconds. There should be 1000 iteration. 10 marks

BE Advance java Programming Sample Question Set II

Any eight (8)

1. a. Explain features of Java. 5 marks

b. Explain how java handles exceptions with suitable example code. 5 marks

2. a. What do you understand by Applet? Explain Applet Life Cycle. 4 marks

b. Write an Applet program which will get two Parameters from html and find out the sum of these two numbers. The background of Applet should be Red. Also write HTML code to call Applet program. 6 marks

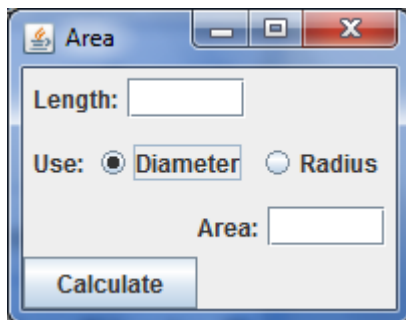
3. a. What is Servlet? What is Servlet Engine? Explain different types of Servlet engine available. 4 marks

b. Write a Servlet program in which client passes 2 numbers through html text box and server returns the sum of these two numbers to web client. 6 marks

4. a. What is socket programming? Explain URL class. 4 marks

b. Write a program to demonstrate Echo Server. An Echo Server is one which will return same message to client that the client sends to server. 6 marks

5. a. Write a Swing program which will calculate Area of circle for the length of Diameter or Radius as selected by user. 6 marks



b. Differentiate between AWT and Swing. 4 marks

6. a. Write a JDBC program which will insert, update and delete records in Customer (id, name, address) table where id, name and address are fields. 6 marks

b. Write additional code to select all records of customers where name starts with 's' and address is Kathmandu. 4 marks

7. a. Write a java program which will copy a content of one file and write it to another file. Pass source file name and destination file name as command line argument. 5 marks

b. Write a java program which will get 3 numbers as input to console and display greatest number among them in its console. 5 marks

8. Write short note (any two): (2 X 5 = 10)

a. Exception Handling with example

b. RMI Architecture

c. Java Bean

9. A computer with IP address 10.2.0.1 contains method called areaCircle (double length). Write complete programs for both server and client so that client computer can call method in the server 10.2.0.1. When the client machine calls areaCircle method, it should display area of circle in client machine's console. 10 marks

10. Explain how Thread class and Runnable interface can help to write multithreaded application. Compare with suitable example. 10 marks

BE Advance java Programming Sample Question Set III

Any eight (8)

7. a. What is name spacing? how package help to maintain name space in Java? Explain how package can be created and used with suitable example. 5 marks
c. Does java support multiple inheritances? Explain. Differentiate between Abstract class, Interface and class. 5 marks
8. a. Explain about java.lang.error and java.lang.Exception classes in Java. Write a program which will fire an exception with message "Value cannot be more than 1000" whenever value of any variable in try block is assigned more than 1000. 5 marks
c. How Vector demonstrate itself as dynamic array. Explain with example. 5 marks
9. a. Applet is a client application. Explain how Applet is different from Servlet and Application. 4 marks
b. Write an Applet program which will get four Parameters from html and draw rectangle with filled color green and line color red. Also write HTML code to call Applet program. 6 marks
10. a. What is Servlet? Explain life cycle of Servlet. 4 marks
b. Write a Servlet Program where user will pass his/her name in textbox and server will return "Welcome <name>". <name> will be replaced with the text passed in textbox. 6 marks
11. a. What do you understand by Socket Programming? Write a program where client send a text message to server and server displays it in its console. 6 marks
b. What is socket programming? Write a program to display the protocol, host port and file components of a URL. 4 marks
12. Write a program to create following form in Swing and insert record in database when submit button is clicked. Use 'mydns' as Data Source Name in ODBC and customer (name, sex, interested_in as database table where name, sex and interested_in are fields in table. 10 marks

The image shows a Java Swing window titled "Customer Form". It contains the following elements:

- A text input field labeled "Name:".
- Two radio buttons for "Sex": "Male" and "Female".
- A section labeled "Interested in:" containing three checkboxes: "Study", "Music", and "Games".
- A "Submit" button at the bottom.

7. a. Write a java program to get two numbers inputted from console and calculate sum of these numbers. 5 marks

b. Write a program in java to read content of text file and count number of lines in it. Display text in file and line counts in its console. 5marks

8 Write Short note (any two): (2 X 5 = 10)

- d. Java Bean
- e. Java Virtual Machine
- f. Date and Math classes

9. A computer with IP address 100.0.0.1 contains method called area (double height, Double width). Write complete programs for both server and client so that client computer can call method in the server 100.0.0.1. When the client machine calls area method, it should display area of rectangle in client machine's console. 10 marks

10. Write a thread program which will display your name in one thread and your address in another in every 500 milliseconds. There should be 1000 iteration. 10 marks

BE Advance java Programming Sample Question Set IV

Any eight (8)

2. a. Java is said to be object oriented, typed, architecture neutral, robust and dynamic programming language. Explain. 5 marks

c. Explain the role of JVM and JRE in Java. Briefly Explain different components of JVM. 5 marks

2. a. Explain how Applet differ from Application. 4 marks

b. Write an Applet program which will get three Parameters (X axis, Y axis and length) from html and draw square based on those two value. The background of Applet should be Blue in color. Also write HTML code to call the Applet program. 6 marks

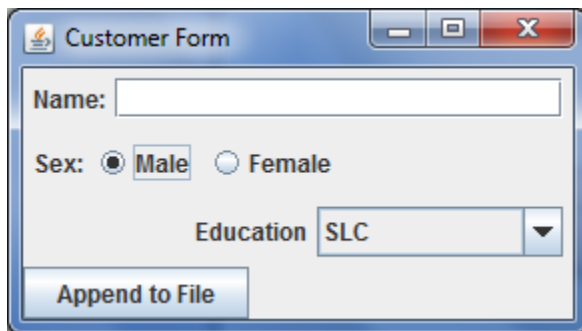
3. a. How Servlet and Servlet Engine differs from each other? Explain different types of Servlet engine available. 4 marks

b. Write a Servlet program in which client passes one numbers through html text box and server find out if the number is prime or not and returns it back to web client. 6 marks

4. a. What is Socket? Explain the importance of socket with suitable example. 4 marks

b. Write a UDP where user passes his/her name from client and server returns "Welcome to Socket programming <username>". Where <username> will be the name passed by the user from client. 6 marks.

5. Write a Swing program to create following form. Male should be selected by default and education consists of SLC, 10+2, Bachelor Degree and Master Degree. Once the "Append to File" button is the data should be saved in text file called "customer_form.txt" where each values are separated by comma (,). Use random file to store data. 10 Marks



The image shows a Java Swing window titled "Customer Form". It contains the following elements:

- A text field labeled "Name:".
- Radio buttons for "Sex": "Male" (selected) and "Female".
- A dropdown menu for "Education" with "SLC" selected.
- An "Append to File" button.

6. a. Write a JDBC program which will insert data in question no. 6 into database. where table name is customer and fields in these table are id, name and address. 6 marks

b. Write additional code to select all records of customers, where name starts with 's' from customer table. 4 marks

7. a. Explain why main program should be public, static and void. Demonstrate how string array passed as parameter in main function can be used with suitable example. 5 marks

b. Write a java program which will get 2 numbers as input to console and display sum of these numbers in the console. 5 marks

8. Write short note (any two): (2 X 5 = 10)

a. Exception Handling with example

b. Package and Interface

c. Java Bean

9. A computer with IP address 10.20.0.100 contain method called area (double height, double width). Write complete programs for both server and client so that client computer can call method in the server 192.168.0.100. When the client machine calls area method, it should display area of rectangle in client machine's console. 10 marks

10. Differentiate Thread class and Runnable interface as two different method of creating multithreaded program in Java. Compare with suitable example. 10 marks.