# GLS UNIVERSITY
## BCA (SEM-V)
## SUBJECT: 0301502 Advance Java
## ASSIGNMENT – 4 ( Swing, GUI Component & Layout Manager)

**A.  Fill in the blanks**

1.  The _____ class act as a super class of JcheckBox and JradioButton classes.

2.  The JradioButton must be placed in a _____ group.

3.  _____ method of JCheckBox return true if checkbox is selected.

4.  _____ method of JList sets the number of rows in the list to be displayed.

5.  _____ method of JScrollBar returns the scroll bar's maximum value.

6.  _____ and _____ are the styled types component.

7.  JPasswordField is a subclass of _____ .

8.  _____ method of JTextArea return the number of lines in the text area.

9.  _____ component is a combination of JList & JtextField.

10  _____ layout manager is used we we need to add components into a grid fo rows and columns.


**B.  State True or False**

1.   JtoggleButton is a concrete subclass of Abstract Button. [T / F]

2.  If the radio buttons are not grouped using ButtonGroup, then each radio button will be behave exactly like JcheckBox. [T / F]

3.  JcheckBox is a subclass of Jcomponent. [T / F]

4.  The strings or images can be element of the list. [T / F]

5.  The scroll bar are available in two orientations. [T / F]

6.  JTextField is a simple type textfield. [T / F]

7.  The setEchoChar(char c) method of JPasswordField sets the specified character as echo character for this field. [T / F]

8.  JTextArea component displays multiple lines of text in one color and with one font. [T / F]

9.  JcomboBox has a model view structure. [T / F]

10..  Menu is created using JMenu and JmenuIteam. [T / F]


**C.  Explain in Detail**

1.  Explain each method of JToggleButton class.

2.  Expalin JRadioButton class with sample code.

3.  Exaplin each method JCheclBox class.

4.  Explain each consturctor and method of JList class.

5. Write  a short note on JScrollBar.

6. Explain JTextField class in detail with sample code.

7. Write a short note on JPasswordField class.

8. Explain each method of JTextArea class.

9. Explain JComboBox class with sample code.

10. How user can create Menu explain in detail.

11. Expain Border laout with sample code.

12. Expain Flow laout with sample code.

13. Expain Grid laout with sample code.

14 Expain Card laout with sample code.


# Question set A and B are Compulsory for each student.
# Question Set C need to attempt as follow:

| Sr. No | Group No. | Questions |
|---|---|---|
| 1. | A01 To A10<br>B01 TO B10<br>C01 TO C10 | 1,7,12,5,13 |
| 2. | A11 TO A20<br>B11 TO B20<br>C11 TO C20 | 2,8,11,6,14 |
| 3. | A21 TO A30<br>B21 TO B30<br>C21 TO C30 | 3,9,10,7,5 |
| 4. | A31 TO A40<br>B31 TO B40<br>C31 TO C40 | 4,10,9,8,6 |
| 5. | A41 TO A50<br>B41 TO B50<br>C41 TO C50 | 5,11,8,9,13 |
| 6. | A51 TO A60<br>B51 TO B60<br>C51 TO C60 | 2,8,10,13,5 |
| 7. | A61 TO A70<br>B61  TO B70<br>C61  TO C70 | 6,12,7,10,14 |
| 8. | A71 To  A80<br>B71 TO B80<br>C71 TO C80 | 1,7,12,5,13 |
| 9. | A81 TO A90<br>B81 TO B90<br>C81 TO C90 | 2,8,11,6,14 |
| 10. | A91 onwards<br>B91 onwards<br>C91 onwards | 3,9,10,7,5 |