

Class XII
Informatics Practices
Assignment

- Differentiate between:
 - JTextField and JPasswordField
 - JButton and JFrame
 - JCheckBox and JRadioButton
 - JComboBox and JList
 - JTextField and JTextArea
 - JLabel and JTextField
- Explain the use of following functions of Java:
 - Integer.parseInt()
 - Integer.toString()
 - Math.round()
 - Math.pow()
 - length()
 - Byte.parseByte()
 - substring()
 - concat()
 - toLowerCase()
 - JOptionPane.showMessageDialog()
 - next()
 - DriverManager.getConnection()
- Write any two common properties and two common methods among following:
 - JTextField and JTextArea
 - JCheckBox and JRadioButton
 - JComboBox and JList
- Write Java function named tenfold() that takes a number as parameter and returns its tenth part.
- Write statements to import packages for following:
 - for database connectivity through JDBC.
 - to use JOptionPane dialog box.
- Consider the following GUI:

The GUI window titled "Virus S/w Hut" contains the following elements:

- Name of customer**: A text input field.
- Bill amount**: A text input field.
- O Cash**, **O Credit Card**, **O Cheque**: Three radio buttons for payment mode selection.
- Calculate Discount**: A button to calculate the discount.
- Discount**: A text input field to display the calculated discount.
- Net Amount**: A text input field to display the final net amount.
- Stop**: A button to close the application.

If bill amount is greater than 10000 then discount is calculated as follows:

Payment Mode	Discount
Cost	15 %
Credit Card	N/L
Cheque	10 %

- Write code to make txtNameofCustomer and txtBillAmount uneditable.
- Write code for stop button to close the application.
- Write code for Calculate Discount button to calculate discount and net amount .

7. Consider the following tables:

BOOK		
EID	EbookName	Author
3	Internal terms	Okhla
4	RDBMS	Steve
5	NetBeans	Gosling

COST		
Subj ID	EID	Cost
E40	1	2000
E41	4	1700
E42	3	1800
E43	5	1250

- Suggest the suitable primary key and foreign key in COST table.
- Write MySQL query to display EbookName, Author, Cost of each book.
- Write MySQL query to display the difference of maximum and minimum cost from cost table.
- Give the output of `select count(*) from book, cost;`
- How many rows and columns will be there in equijoin of above tables?

8. Explain the use of pre-increment and post-increment operator with an suitable example.

9. What is the output produced by following code fragement?

```
float x=9, y=5;
int z=int(x/y);
switch(z)
{ case 1: x+=2;
  case 2: x=x+3;
  default: x=x+1;
}
```

System.out.println("x is: "+x);

10. Which HTML tags are used for

- a. line break b. horizontal rule c. to put a table d. to insert an image e. to change background color
f. to change font size g. to make heading h. to make a textfield i. to make a form

11.

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