

## Class – XI

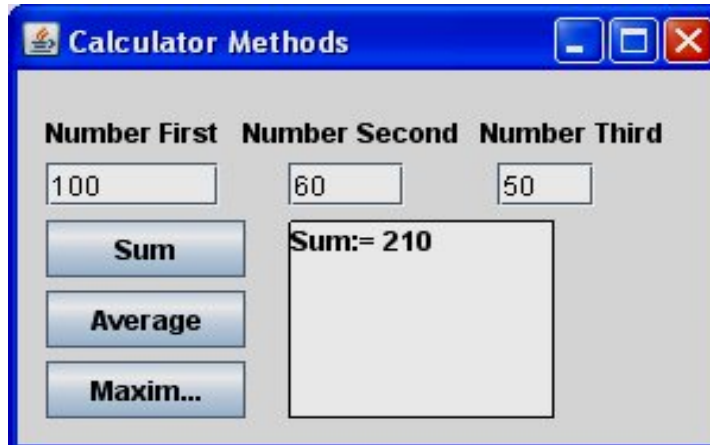
Computer Science  
Holiday's H.W.

Note : Solve two C.B.S.E. sample papers in your H.W. notebooks  
(only the portion which is covered in the class)

Subject - INFORMATICS PRACTICES(065)  
**HOLIDAY'S HOMEWORK**

**Note: do the following questions in your homework notebooks.**

1. Design an application having an interface like:

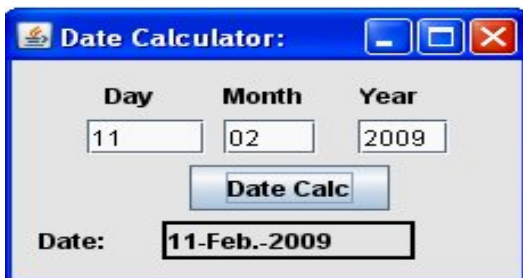


Implement functionality by writing methods `calcSum()`, `calcAvg()` & `calcMax()`. Invoke these methods and pass three number as argument from buttons event handlers

2. Rewrite the following code using while without change Output

```
int n,t;  
n=Integer.parseInt(jTextField1.getText());  
t=1;  
for(t=1;t<=20;t++)  
{ System.out.println(t + "x" + n + "=" + t*n);  
}
```

3. WAP & Design a following form for input valid day no., Month no. and year and print date according to input month in given format with checking day no. >0 & <=31 & month no >0 & <=12.



4. Difference between Primitive data type and User define data type.

.5.

Write a program & design IDE form to define two method calcCI() & calcSI() to pass Principal Amount & Time as a argument and return Simple Interest & Compound Interest respectively as per following criteria :-

Amount	Time	Rate
1-5000	0-5	10%
5000-10000	6-8	15%
10000- 20000	9-12	20%
20000-50000	13-20	25%
>50000	>20	30%

6 Write Java method and integer number of series terms as a argument to print following series.  
1, 2, 4, 8, 16, 32,.....

7 Write a Java code to display following Code:-  
0  
0 2  
0 2 4  
0 2 4 6  
0 2 4 6 8

8 State the basic units of the computer. Give the functions of each units of computer.

9 Briefly explain the type of Computers and its purpose.

10 What is the function of Memory? What are its measuring units?

11 Write two point differences between volatile memory and non-volatile memory.  
Write two name the super computers developed in India.

12 Expend the following :-

i. CRT                      ii. IDE                      iii. MICR                      iv. ASCII

13 Explain the two categories of printers? Write working process of dot-matrix printer.

14	Write short note:- i. Digital Certificate    ii. Computer Viruses    iii. Firewall & Cookies
15	What are different characteristics of JAVA?
16	Distinguish between unary, binary & ternary operator. Give examples of Java operators for each one of them.
17	Write the valid identifiers. Data#rec,    _data\$,    break_loop,    data_1 ,    data of birth, my.file,    asm,    switch_case,    go_to,    m.n._data
18	Identify the data type of the following expression: i. $u*t+1/2*f*t*t$ ii. $200.23*(1-u*f)/(q+r)$ If u, q is an int, f is long and t is float type.
19	Find the output of the following code:- <pre>boolean b; int d, as=290; int x1=100, x2=200, x3=300 ; i.      b=x1*2==x3 System.out.println("B="+ b); ii.     b=(x3-2*x2&lt;0)     ((x3=400)&lt;2*x2) System.out.println("B="+ b); iii.    d= as-++x1&gt;x2? x1:x2 System.out.println("D="+ d);</pre>
20	Write equivalent Java expressions for the following expressions:- i. $ a  + b \geq  b  + ++a$ ii. $e^{ 2x^{3/2}-4\sqrt{x} }$
21	Explain the following terms:- 1. Relation 2. Degree and Cardinality 3. Foreign Key & Integrity constraint
22	What types of commands are used in the following categories:- i. DDL    ii. DML                      iii. TCL                      iv. DCL