

## Application based on if.....else and nested if ...else structure :

1. Wap in 'JAVA' to accept two values and calculate **highest** value and **lowest** value.
2. Wap in 'JAVA' language to accept a number, check and display the message whether it is **positive** or **negative** number.
3. Wap in 'JAVA' language to accept a number, check and display the message whether it is **even** or **odd** number.
4. Wap in 'JAVA' language to accept a number, check and display the message whether it is **positive even** or not.
5. Wap in 'JAVA' language to accept a number, check and display the message whether it is **negative odd** or not.
6. Wap in 'JAVA' language to accept a character, check and display the message whether it is a **digit** or an **alphabet**
7. Wap in 'JAVA' language to accept a character, check and display the message whether it is a **digit** or an **alphabet** or a **special symbol**.
8. Wap in 'JAVA' language to accept a character, check and display the message whether it is a **space**, **backspace**, **tab** or **enter** key or not.
9. Wap in 'JAVA' to accept a character, and determine whether the character is **small case** or **capital case** character.
10. Wap in 'JAVA' language to accept a number, check and display the message whether it is **positive** or **negative** or **neither** +<sup>ve</sup> **nor** -<sup>ve</sup>.
11. Wap in 'JAVA' language to accept a number, check and display the message whether it is +<sup>ve</sup> **even** or -<sup>ve</sup> **even** or +<sup>ve</sup> **odd** or -<sup>ve</sup> **odd**.
12. Wap in 'JAVA' to accept total no. in 500 and find out percentage and display remarks, where remarks will be given sequence and format:-  
**per**>=30 and **per** < 45 **pass**  
**per**>=45 and **per** <60 **second**  
**per**>=60 and **per** <=100 **first**  
**otherwise fail.**
13. Wap in 'JAVA' language to accept **two numbers**, check and display the **highest value** on the standard output device.
14. Wap in 'JAVA' to accept year and display a message whether the year is a **leap year** or not.
15. Wap in 'JAVA' to accept six digit no. and obtain the reverse number and to determine whether the original and reverse no's are equal or not.

- 16. Wap in 'JAVA' language to accept **three numbers**, check and display the **highest value** on the standard output device, using nested if ..else.
- 17. Wap in 'JAVA' language to accept **four numbers**, check and display the **highest value** on the standard output device, using nested if..else.
- 18. Wap in 'JAVA' language to accept **five numbers**, check and display the **highest value** on the standard output device, using nested if..else.
- 19. Wap in 'JAVA' language to accept **six numbers**, check and display the **highest value** on the standard output device.
- 20. Wap in 'JAVA' language **for an institute** to accept a student's registration number and marks obtained in the papers **c, cpp and java**. Display the marks detail in the following format as criteria given below:

- Each paper is of maximum 60 marks.
- Minimum pass marks in each paper is 30%.
- No any negative marking in any paper.
- The result will be **PASS**, if all the papers passed otherwise **FAIL**.

=====		
<b>Marks Detail</b>		
=====		
<b>Registration Number</b>	::	?
<b>Marks Obtained in C</b>	::	?
<b>Marks Obtained in CPP</b>	::	?
<b>Marks Obtained in JAVA</b>	::	?
<b>Result Remarks</b>	::	?

- 21. Wap in 'JAVA' language **for a school** to accept a student's registration number and marks obtained in the papers math, chemistry and physics. Display the marks detail as criteria given below: -
  - a. Each paper is of maximum 100 marks.
  - b. Minimum pass marks in each paper is 50%.
  - c. No any negative marking in any paper.
  - d. The result remarks are as follows: -

<u>Aggregate</u>	<u>Remark</u>
Marks >=85%	EXCELENT
Marks >=70%	VERY GOOD
Marks >=60%	GOOD
Marks >=50%	SATISFACTORY
Marks <50	NOT SATISFACTORY

22. Wap in 'JAVA' language **for an organization** to accept employee number and basic salary, calculate DA@10% of basic salary if the basic salary is more than 4000 otherwise @15%. Similarly calculate HRA@20% of basic salary if the basic salary is less than 8000 otherwise @15%. Calculate and display the salary detail of the employee in the following format, as income tax to be deducted @12% of Gross Salary if Gross Salary exceeds from 12000.

Salary Detail	
Employee Number	: ?
Basic Salary in Rs.	: ?
DA in Rs.	: ?
HRA in Rs.	: ?
Gross Salary in Rs.	: ?
Income Tax Deduction in Rs.	: ?
Net Payable Amount in Rs.	: ?

23. Wap in 'JAVA' language **for a publisher** offering discount on books as per the chart given below: -

Publisher	Discount
TMH	10%
BPB	20%
Other	0%

Calculate and display the bill in the following format: -

Bill Detail		
Maximum Retail Price in Rs.	:	?
Discount Amount in Rs.	:	?
Net Payable Amount in Rs.	:	?

24. Wap in 'JAVA' language to accept meter number and unit consumed, calculate and print the electricity bill as per the chart given below: -

<u>Unit Consumed</u>	<u>Rate per Unit</u>
0 – 60	2.25
61 – 100	3.50
100 – 200	4.00
201 – above	4.50

25. Wap in 'JAVA' language for a footwear shop offering discount as per the chart given below: -

<u>Company Name</u>	<u>Discount</u>
Action	20%
Liberty	15%
Bata	10%
Other	0%

26. Wap in 'JAVA' for a supermarket shop offering off-season discount on products as per the chart given below: -

<u>Product No</u>	<u>Discount</u>
1 – 100	10%
101 – 300	15%
301 – 700	20%
701 – above	25%

27. Write an application program for a TV shop offering puja discount as per the chart given below: -

<u>TV</u>	<u>Discount</u>
B&W	20%
Color 14"	15%
Color 21"	25%

28. Write an application program for Bihar Tourism Development announces packages to promote tourism in Bihar.

<u>Package</u>	<u>Destination</u>
1	Bodhgaya 3000Rs.
2	Nalanda 2500Rs.
3	Rajgir 2000Rs.