

## Java Coding Practice Assignments (Topic: Conditional Statement)

1. Take two int values from user and print greatest among them.
2. Take three int values from user and print greatest among them.
3. Write a Java program to get a number from the user and print whether it is positive or negative.
4. Take an input value from user and check the status of grade in the following order-  
(If the percentage is above 90, assign grade 'A+', If the percentage is above 75, assign grade 'A' , If the percentage is above 65, assign grade 'B+' , If the percentage is above 50, assign grade 'B' , If the percentage is above 35, assign grade 'C' , Below 35, Fail)
5. Take one int value from user and print if it's Even or Odd no. (using if-else and Switch case)
6. Take values of length and breadth of a rectangle from user and check if it is square or not.
7. Write a program to check if a year is leap year or not.  
(If a year is divisible by 4 then it is leap year but if the year is century year like 2000, 1900, 2100 then it must be divisible by 400.)
8. Write a Java program to find the number of days in a month
9. Create a calculator by using if-else statement and Switch case
10. A shop will give discount of 10% if the cost of purchased quantity is more than 1000.  
Ask user for quantity  
Suppose, one unit will cost 100.  
Judge and print total cost for user.
11. A company decided to give bonus of 5% to employee if his/her year of service is more than 5 years.  
Ask user for their salary and year of service and print the net bonus amount.
12. A school has following rules for grading system:
  - a. Below 25 - F
  - b. 25 to 45 - E
  - c. 45 to 50 - D
  - d. 50 to 60 - C
  - e. 60 to 80 - B
  - f. Above 80 - A
 Ask user to enter marks and print the corresponding grade. (using Switch case only)
13. Take input of age of 3 people by user and determine oldest and youngest among them.
14. A student will not be allowed to sit in exam if his/her attendance is less than 75%.  
Take following input from user  
Number of classes held  
Number of classes attended.  
And print  
percentage of class attended  
Is student is allowed to sit in exam or not.
15. Modify the above question to allow student to sit if he/she has medical cause. Ask user if he/she has medical cause or not ( 'Y' or 'N' ) and print accordingly.

16. A 4-digit number is entered through keyboard. Write a program to print a new number with digits reversed as of original one. E.g.-  
INPUT: 1234    OUTPUT: 4321  
INPUT: 5982    OUTPUT: 2895
17. A four digit number ABCD is called Lucky number if  $A+B=C+D$   
(Example- 3719 is a Lucky number as  $3+7=1+9$  but 3521 is not a Lucky Number as  $3+5 \neq 1+9$ )
18. Write a Java program that takes the user to provide a single character from the alphabet. Print Vowel or Consonant, depending on the user input. If the user input is not a letter (between a and z or A and Z), or is a string of length  $> 1$ , print an error message.