Java Coding Practice Assignment (Topic: Looping Statement)

1. Write a program which prints the even numbers between 1 and 100 in an increasing order
2. Take 10 integers from keyboard using loop and print their average value on the screen.
3. Calculate the sum of digits of a number given by user. E.g.-
   INUPT : 123 OUPUT : 6
   INUPT : 12345 OUPUT : 15
4. Write a program which reads a sequence of integers from the user and stop by displaying "Done" when the sum of these values exceeds 100.
5. Write a program which displays the sum of the strict divisors of an integer given by the user. (Ex.- input-6 ->divisors of 6 are 1,2,3 ; by adding them we can get 1+2+3=6 ;So 6 will be the output
   input-10 ->divisors of 6 are 1,2,5 ; by adding them we can get 1+2+5=8 ;So 8 will be the output)
6. Write a program which reads a positive number N from the user then indicates if N is prime or not.
7. Write a program to print all prime number in between 1 to 100.
8. Write a program which reads an integer n and displays the n-th Fibonacci number.
9. Write a program which displays a string with a space after each character.
   (Ex.- abcd -> a b c d)
10. Write a program which displays the reverse of a String. (Ex.- abcd -> dcba)
11. Factorial of any number n is represented by n! and is equal to 1*2*3*....*(n-1)*n.
    E.g.-
    4! = 1*2*3*4 = 24
    3! = 3*2*1 = 6
    2! = 2*1 = 2
    Also,
    1! = 1
    0! = 0
    Write a Java program to calculate factorial of a number.
12. Write a program which finds if a String is a Palindrome String or not.
13. A three digit number is called Armstrong number if sum of cube of its digit is equal to number itself.
    E.g.- 153 is an Armstrong number because $(1^3)+(5^3)+(3^3) = 153$.
    Write all Armstrong numbers between 100 to 500.
14. Draw a 10*10 multiplication table using For loop.
15. Print multiplication table of 24, 50 and 29 using loop.
16. Take integer inputs from user until he/she presses q (Ask to press q to quit after every integer input). Print average and product of all numbers.
17. Print the following patterns using loop :

A. * ** *** **** *****	**B.** * ** *** **** *****	**C.** * *** *****	**D.** * * * *****
E. ***** ***** ***** ***** *****	**F.** ***** * * * * * * *****	**G.** ***** *** *** *** *****	**H.** ***** **** *** ** *
I. 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5	**J.** * *** ***** *** *	**K.** 1 22 333 4444 . . NNNNNN .. N	**L.**