

### Java Question On Control Flow and Loops

1. Write a java program to find nth term of Fibonacci series.
2. Write a java program to find  $x^y$
3. Write a java program to find nth prime no. starting after x.
4. Write a java program to print table of x starting from 1 to y
5. Write a java program to find sum of digit of a given number.
6. Write a java program to find whether a given no is prime or not
7. Write a java program that divide a given no. as follows  
Eg : input is 1234567  
First no. 1357 (digit of odd place)  
Second no. 246 (digit of even place)  
And find which no is large.
8. Write a java program to convert degree into Celsius and vice versa
9. Write a java program to display grade based on number obtain using if-else-if ladder and nested conditional operator.
  - a. >90 grade A+
  - b. >80 & <90 grade A
  - c. >70 & <80 grade B
  - d. >60 & <70 grade C
  - e. >50 & <60 grade D
  - f. >40 & <50 grade E
  - g. <40 grade grade F
10. Write a java program to find a given no is even or odd.
11. Write a java program to find a given no is palindrome or not
12. Write a java program to find a given no is Armstrong or not
13. Write a java program to perform arithmetic operation on 2 number based on user choice by using switch case.
14. Write a java program to demonstrate the use of Break and Continue with label.
15. Write a java program to execute following expression. Add necessary code to correct the given expression if required:
  - a. `byte a=10;`  
`a=a+10;`
  - b. `short b=15;`  
`int c=b/3.0;`
  - c. `double a=12.9;`  
`float b= (float)a/3.5;`