# Java Programs to improve coding skills

[KG-Coding-with-Prashant-Sir/Java\_Complete\_Youtube (github.com)](https://github.com/KG-Coding-with-Prashant-Sir/Java_Complete_Youtube/tree/main)

1. Hello World
2. Take input from user Hint: Scanner class
3. Swap two numbers using third variable
4. WAP to calculate simple interest
5. WAP to calculate Compound interest
6. Check positive/negative number
7. Even/odd
8. Greatest of three number
9. Leap year Hint: year which is completely divisible by 400 is leap year. And those years which is completely divisible by 4 and not completely divisible by 100 is leap year (example 1900 is not leap year but 1904 was leap year, 2000 is leap year)
10. Check grades of Student object (id, name, marks) if marks >=90 than A >75 than B.
11. Create multiplication table for given number. Example 5 x 1=5, 5 x 2=10….
12. Find sum of all the odd numbers between 1 and 10
13. WAP to find factorial of a number? Hint: 5!= 5x4x3x2x1=120
14. WAP to sum all the digits of a number. Example: 342 than 3+4+2=9
15. WAP to find Lowest common multiple (LCM)? Hint: LCM=130 for values 65, 10 ,5,

LCM =24 for value 6,8

1. WAP to find Greatest common divisor
2. WAP to find prime numbers between 1 and 100. Hint : those numbers which has only 2 factors 1 and himself is prime number. Example: 3,5,7,11…
3. Reverse digits. Example: 347 than 743
4. Print Fibonacci series between 1 and 10. Hint: 0,1,1,2,3,5,8…
5. Check if number is Armstrong or not? VVI

153 = 1\*1\*1 + 5\*5\*5 + 3\*3\*3

= 1 + 125 + 27

= 153 is Armstrong.

370, 371, 407, 1634. Is also Armstrong

1, 2, 3, 4, 5, 6, 7, 8, 9, 153, 370, 371, 407, 1634. These are Armstrong numbers

1. Check number is palindrome or not? Hint: Original==Reverse
2. Print pattern like

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1. Sum and average of all the elements of an Array?
2. Number of occurrences of a item in an array?
3. Number of occurrence of all elements in an array?
4. Maximum and minimum element in an array?
5. Check if array is sorted or not?
6. Delete a specific element and return a new array?
7. Reverse an Array? Using swap and using third array both
8. Check Array is palindrome or not? With and without recursion
9. Merge two sorted Arrays?
10. Search an element in an array? Linear and binary search both. VVI
11. Sum and average of all the element in 2D array?
12. Find the sum of two diagonal elements?