

CORE JAVA PROGRAMMES

1) Write a program to find

Swapping of two numbers - without temporary variable:

Swapping of two numbers - with temporary variable:

2) Find whether a number is even or odd?

3) Write a program to find all prime number up to a given numbers?

4) Write code to check whether an integer is Armstrong number or not?

5) Write a program to check whether a number is palindrome or not?

6) Write function to compute Nth Fibonacci number? Both iterative and recursive?

7) How to find largest of three integers in Java?

8) Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7?

9) Write a program to convert given no. of days into months and days.

(Assume that each month is of 30 days)

Example:

Input - 69

Output - 69 days = 2 Month and 9 days */

10) Find Sum of N Numbers.

11) Write a Java program which finds if a given year is leap year or not?

12) Java Program To print Numbers in Below pattern:

```

    *           * * * * *
  * *         * * * *
 * * *       * * *
* * * *     * *
* * * * *   *

```

13) Java Program to print Numbers in below pattern:

```
  1
 2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

14) Java Program to print Numbers in Below Format:

```
 1      1 2 3 4 5      5 5 5 5 5      1
1 2      1 2 3 4      4 4 4 4      1 2 1
1 2 3    1 2 3      3 3 3      1 2 3 2 1
1 2 3 4  1 2      2 2      1 2 3 4 3 2 1
1 2 3 4 5 1      1      1 2 3 4 5 4 3 2 1
```

15) Write a program to print output as under using for Loop.

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

16) Write code to check a String is palindrome or not?

17) Write a method which will remove any given character from a String?

18) Write a program to concatenate string using for Loop?

19) Write a program to find the reverse of a string?

20) How to find first non- repeated character of a given String?

21) How to count occurrence of a given character in a String?

22) Write a java program to find the duplicate words and their number of occurrences in a string?

23) How to replace a substring inside a string by another one?

24) How to convert a string totally into upper case and lower case and also to convert a particular word to upper and lower case?

- 25) Write a java program to count the number of words in a string?
- 26) How to find vowels in a string in java?
- 27) Write a java program to remove all white spaces from a string?
- 28) Write a java program to find duplicate characters in a string & count?
- 29) How do you sort the array elements?
- 30) How to create, sort an array and search an element inside it and insert an element inside it?
- 31) How to remove duplicate elements from array in Java and also create and add, multiply, subtract one matrix from other matrix?
- 32) How to create and print a collection (try using list, set, map)?
- 33) How to convert an array into a collection?
- 34) **Perform** the Basic **operations**: adding, retrieving, updating, removing elements using collections
- 35) How to iterate through elements of HashMap? How to retrieve the data from set?
- 36) How to create a Hash Table and how to get set view of Keys from Hash Table?
- 37) How to create a List and how to find min & max of a List?
- 38) How to handle an exception in Java programming (try an example using try/catch, throws)
- 39) Write a program Create a file and How to Read a File Line By Line in Java?
- 40) How to check a file exist or not? How to renaming a file? How to copy one file into another file? How to delete a file? How to read a file? How to write to a file?
- 41) Write code to filter duplicate elements from an array and print as a list?
- 42) Write code to sort the list of strings using Java collection?
- 43) Write a Java program to find out the first two max values from an array?
- 44) Write a Java program to find the longest substring from a given string which doesn't contain any duplicate characters?
- 45) Write Java code to get rid of multiple spaces from a string?