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| PART 1: Java Fundamentals | | |
| 1 | Write a program to check whether the number entered is Prime or not? |  |
| 2 | Write a program to check whether the number entered is armstrong number  or not? |  |
| 3 | Write a program to check whether the number entered is strong number  or not? |  |
| 4 | Write a program to add all numbers between 1 to n. |  |
| 5 | Write a program to get the factorial of the number entered. |  |
| 6 | Write a program to print the fibonacci series. |  |
| 7 | Write a program to print the series | 1 3 4 6 7 9 . . . . |
| 8 | Write a program to print the series | 1 2 5 6 9 10 . . . . |
| 9 | Write a program to print the series | 1 4 7 2 5 8 3 6 9 . . . . |
| 10 | Write a program to print the series | 1 4 9 16 25 36…. |
| 11 | Write a program to print the series | 1, 2, 4, 7, 11, |
| 12 | Write a program to print the series | 3, 6, 12, 24, 48, ….. to n |
| 13 | Write a program to print the series | 1.5, 3.0, 4.5, 6.0, |
| 14 | Write a program to print the series | 8, 88, 888, 8888, 88888, 888888 |
| 15 | Write a program to print the series | 2, 5, 10, 17, |
| 16 | Write a program to print the sum of series | 1 + (1/2) + (1/3) + …… + (1/20) |
| 17 | Write a program to print the pattern | 1 1 2 1 2 3 |
| 18 | Write a program to print the pattern | 1 2 3 4 5 6 |
| 19 | Write a program to print the pattern | 1 2 1 3 2 1 |
| 20 | Write a program to print the pattern | 1 2 2 3 3 3 |
| 21 | Write a program to print the pattern | 1 1 1 1 2 2 2 3 3 4 |
| 22 | Write a program to print the pattern | \*    \* \* \*   \*  \* |
| 23 | Write a program to print the pattern | 4 3 2 1 3 2 1 2 1 1 |
| 24 | Write a program to print the pattern | 1 2 3 1 2 1 |
| 25 | Java Program to Multiply two Floating Point Numbers |  |
| 26 | Java Program to Find ASCII Value of a character |  |
| 27 | Java Program to Compute Quotient and Remainder |  |
| 28 | Java Program to Check Whether an Alphabet is Vowel or Consonant |  |
| 29 | Java Program to Swap Two Numbers |  |
| 30 | Java Program to Check Whether a Number is Positive or Negative |  |
| 31 | Java Program to Calculate the Sum of Natural Numbers |  |
| 32 | Java Program to Generate Multiplication Table |  |
| 33 | Java Program to Find GCD of two Numbers |  |
| 34 | Java Program to Find LCM of two Numbers |  |
| 35 | Java Program to Display Alphabets (A to Z) using loop |  |
| 36 | Java Program to Count Number of Digits in an Integer |  |
| 37 | Java Program to Reverse a Number |  |
| 38 | Java Program to Calculate the Power of a Number |  |
| 39 | Java Program to Check Palindrome |  |
| 40 | Java Program to Check Whether a Number is Prime or Not |  |
| 41 | Java Program to Check Armstrong Number |  |
| 42 | Java Program to Make a Simple Calculator Using switch...case |  |
| 43 | Java Program to Calculate Average Using Arrays |  |
| 44 | Java Program to Find Largest Element of an Array |  |
| 45 | Create a prime factorization calculator that returns the prime factors of any number between 2 and 100 |  |