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| 1. | Find the Square root of a number in C++ using IF-ELSE statement? |
| Sample Input | 1296 |
| Sample Output | 36 |
| Test Case | 1. 1500 |
| 2.-500 |
| 3.5! |
| 4.0 |
| 5.50.5 |

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| 2. | Find the Cube root of a number in in C++ using any conditional statements? |
| Sample Input | 9 |
| Sample Output | 3 |
| Test Case | 1. 3.4 |
| 2.40 |
| 3.6! |
| 4.00 |
| 5.66.666 |

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| 3. | Write a C++ program to check if a number is perfect or not using IF condition? |
| Sample Input | 6 |
| Sample Output | 6 is a perfect number |
| Test Case | 1. 13 |
| 2. 5.5 |
| 3.SIX |
| 4. 0 |
| 5. 1 |

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| 4. | Write a C++ program to check if a number is perfect or not using IF-ELSE condition? |
| Sample Input | 6 |
| Sample Output | 6 is a perfect number |
| Test Case | 1. 13 |
| 2. 5.5 |
| 3.SIX |
| 4. 0 |
| 5. 1 |

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| 5. | Write a C++ program to find the smallest element missing in a sorted array using WHILE loop? |
| Sample Input | {0, 1, 2, 3, 5, 6, 7} |
| Sample Output | 4 |
| Test Case | 1. {0, 1, 2, 3, 4, 5, 6, 7} |
| 2. {0, 11, 2, 3, 5, 6, 7} |
| 3. {0, 0, 2, 3, 4, 5, 6, 7} |
| 4. {0, 1, 2, 3.5,4, 5, 6, 7} |
| 5. {0} |

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| 6. | Write a program in C++ to find the sum of n natural numbers using FOR loop? |
| Sample Input | Enter the value of n : 3  Enter the numbers : 2 5 8 |
| Sample Output | Sum: 15 |
| Test Case | 1. n=0; 3,5,6 |
| 2.n=-1; 5,6,7 |
| 3.n=A; 3,5,6 |
| 4.n=5; 5,6 |
| 5.n=6.7; 0,0 |

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| 7. | Write a program in C++ to find the sum of n natural numbers using WHILE loop? |
| Sample Input | Enter the value of n : 3  Enter the numbers : 2 5 8 |
| Sample Output | Sum: 15 |
| Test Case | 1. n=0; 3,5,6 |
| 2.n=-1; 5,6,7 |
| 3.n=A; 3,5,6 |
| 4.n=5; 5,6 |
| 5.n=6.7; 0,0 |

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| 8. | Write a program in C++ to find the sum of n natural numbers using DO WHILE loop? |
| Sample Input | Enter the value of n : 3  Enter the numbers : 2 5 8 |
| Sample Output | Sum: 15 |
| Test Case | 1. n=0; 3,5,6 |
| 2.n=-1; 5,6,7 |
| 3.n=A; 3,5,6 |
| 4.n=5; 5,6 |
| 5.n=6.7; 0,0 |

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| 9. | Write a C++ program to check if a number is perfect or not using FOR LOOP condition? |
| Sample Input | 6 |
| Sample Output | 6 is a perfect number |
| Test Case | 1. 13 |
| 2. 5.5 |
| 3.SIX |
| 4. 0 |
| 5. 1 |

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| 10. | Write a C++ program to check if a number is perfect or not using WHILE condition? |
| Sample Input | 6 |
| Sample Output | 6 is a perfect number |
| Test Case | 1. 13 |
| 2. 5.5 |
| 3.SIX |
| 4. 0 |
| 5. 1 |