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| 1. | Write a program to calculate the bonus of the employees. The class master derives the information from both admin and account classes which derives information from the class person. Create base and all derived classes having same member functions and parameters called getdata, display data and bonus. |
| Sample Input | enter salary : 10000 |
| Sample Output | bonus = 11000 |
| Test Case | 25000 |
| 12000.45 |
| Abcd |
| $234\*\* |
| “HELLO” |

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| 2. | Write a C++ program to demonstrate multiple inheritance by creating a class cuboid which extends class rectangle, class shape. It calculates area and volume. Use appropriate member functions and member variables. |
| Sample Input | LENGTH = 10  BREATH = 10  HEIGHT = 10 |
| Sample Output | AREA OF RECTANGLE = 100  VOLUME OF RECTANGLE = 1000 |
| Test Case | 1. 54, 34.3, 1.55 |
| 2.75.5,10,20 |
| 5,10,15 |
| X,Y,Z |
| LENGTH, BREATH, HEIGHT |

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| 3. | Create a class Number and derive the class Skipper from Number. Write a program to print the numbers from M to N by skipping K numbers in between? Use appropriate functions and variables. |
| Sample Input | M = 50  N = 100  K = 7 |
| Sample Output | 50, 58, 66, 74, ….. |
| Test Case | ● M = 15, N = 05, K = 02 |
| ● M = 25, N = 50, K = 04 |
| ● M = 15, N = 100, K = -02 |
| ● M = 0 , N = 0 , K = 2 |
| ● M = 200 , N = 200 , K = 50 |

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| 4 | A Grandfather is the owner of 500Cr property, he wants to give this property to his grandson. What are the possible ways to access this property by his grandson? Use appropriate functions and variables. |
| Sample Input | 500 |
| Sample Output | Received the Property |
| Test Case | 1. 500 |
| 2.-5 |
| 3.6! |
| 4. FIVE |
| 5. 87.65 |

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| 5 | A paper consists of 4 authors, but one author didn’t do any work but he wants to put his name in this paper. But others are not interested at the same time they want to add another author as a 5th author. How to identify the Not worked for paper. Write a C++ code for the above scenario. |
| Sample Input | Enter the authors details : 1 2 3 4 5 |
| Sample Output | Author No. 1 is removed from the paper….and  5th author inserted…. |
| Test Case | 1 |
| 2 |
| 3 |
| 4 |
| 5 |