

Programming Questions

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| 1 | Given that an EMPLOYEE class contains following members: Data members : Employee_Number, Employee_Name, Basic, DA, IT, Net_Salary Member functions: to read the data, to calculate Net_Salary and to print data members. Write a C++ program to read the data of N employees and compute Net_Salary of each employee. (Dearness Allowance (DA) = 52% of Basic and Income Tax (IT) = 30% of the gross salary. $\text{Net_Salary} = \text{Basic} + \text{DA} - \text{IT}$) |
| 2 | Write a C++ program to create a class called LIST (linked list) with member functions to insert an element at the front of the list and delete an element from the front of the list. Demonstrate all the functions after creating a list object. Use display routine to display the list content after every operation. |
| 3 | Write a C++ program to create a template function for Quicksort and demonstrate sorting of integers and doubles. |
| 4 | Write a C++ program to create a QUEUE class with member functions to add an element and delete an element from the queue. Using these member functions, implement a queue of integers and doubles. Demonstrate the operations by displaying the contents of the queue after every operation. |
| 5 | Write a C++ program to create a class called EXPRESSION. Using appropriate member functions, convert a valid Infix expression into Postfix form. Display the Infix and Postfix expressions. [You can do this if time permits] |