

## OOP Laboratory Test

1	<p>Write a C++ program to create a class called OCTAL which has the characteristics of an octal number. Implement the following operations by writing an appropriate constructor and an overloaded operator +.</p> <p>(i) OCTAL h = x; where x is an integer.</p> <p>(ii) int y = h + k; where h is an OCTAL object and k is an integer.</p> <p>(iii) Display the OCTAL result by overloading the operator &lt;&lt;</p>
2	<p>Write a program C++ program to create a class called DATE. Accept two valid dates in the form of dd/mm/yyyy. Implement the following operations by overloading the operator + and -. After every operation display the result by overloading operator &lt;&lt;.</p> <p>i) No_of_days= D1-D2 where D1 and D2 are DATE objects, D1&gt;=D2 and No_of_days is an integer.</p> <p>ii) D2=D1+ No_of_days; where D1 is a DATE object and No_of_days is an integer.</p>
3	<p><b>Write a C++ program to create a template function for Quick sort &amp; demonstrate sorting of integer &amp; double.</b></p>
4	<p>Write a C++ Program to create a class called LIST (linked list) with the following member functions.</p> <p>L=L+ele; will insert an element from the front to the list L.</p> <p>L=L-ele; Search a node with an element ele in the list L and remove the node with ele from L.</p> <p>L1==L2 ; should return true if both the lists L1 and L2 are same with respect to elements.</p> <p>L1=L1--; To remove the duplicates if any from the list L1. Note that after duplicates removal, all distinct elements of the original list must be still present.</p> <p>Overload &gt;&gt; to display the content of the list after every list operations. In addition to the above functions you can add your own functions if needed.</p>