

OOP Laboratory

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> <ul style="list-style-type: none">i) OCTAL h = x; where x is an integer.ii) int y= h + k; where h is an OCTAL object and k is an integer.iii) Display the OCTAL result by overloading the operator <<.
2.	<p>Write a C++ program to create a class called STRING and implement the following operations. Display the results after every operation by overloading the operator <<.</p> <ul style="list-style-type: none">i) STRING s1 = "NIT"ii) STRING s2 = "GOA"iii) STRING s3 = s1 + s2 (Use copy constructor)
3.	<p>Write a C++ program to create a class called STACK using an array of integers. Implement the following operations by overloading the operators '+' and '-'.</p> <ul style="list-style-type: none">i) s1 = s1 + element; where s1 is an object of the class STACK and element is an integer to be pushed on the top of the stack.ii) s1 = s1- ; where s1 is an object of the class STACK. '-' operator pops the element. <p>Handle the STACK empty and full conditions. Also display the contents of the stack after each operation by overloading << operator.</p>