



Smt. Chandaben Mohanbhai Patel Institute of Computer Applications

BCA – Semester III

CAUC201 – Fundamental of Data Structures and Algorithms

Practical Assignment – 2	
Programs on Stack, Queue, Circular Queue and Recursion Function	
1	Write a program to perform the following operations on a stack. (Implement the stack using array) <ul style="list-style-type: none">• PUSH• POP• PEEP• CHANGE
2	Write a program to perform the following operation on a simple queue. (Implement the queue using array) <ul style="list-style-type: none">• Insert an element• Remove an element.
3	Write a program to perform the following operation on a circular queue. (implement the circular queue using array) <ul style="list-style-type: none">• Insert an element• Remove an element
4	Write a program to calculate factorial of a given number using a recursion function.
5	Write a program to find the GCD (Greatest Common Division) of two numbers using a recursion function.