Chandigarh Engineering College, Landran

Department of CSE

Assignment-1

Subject name: Data Structures & Algorithms

Subject Code: BTCS-301-18

Marks:10

Sr.No	Question	COs
1.	Differentiate between arrays and linked list. (2)	(CO1)
2.	Define Overflow and Underflow conditions. What are underflow and overflow conditions for Stacks and Queues .(2)	(CO2)
3.	Write an algorithm to insert "JOHN" at loc 3 into the following array : (3) <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>Aena</td><td>Hamid</td><td>Miara</td><td>Som</td><td>Tina</td><td></td></tr></table>	(CO1)
4.	Sort the following array using QUICK SORT. (3) DATA: 55,35,65,25,85,95,45,15	(CO2)