CSE291 Data Structures Lab

Lab Sheet 10

Heap

1.	Write	a C++ program to build the following
		(a)Min heap.
		(b)Max heap.
2.	Write	a C++ program to do the following in Min Heap
		(a)Increase the value of a node.
		(b)Decrease the value of a node.
		(c)Insert an element .
		(d)Extract (Delete) the minimum.
		(e)Delete a node.
3. Write a C++ program to do the following in Max H		
		(a)Increase the value of a node in the heap.
		(b) Decrease the value of a node.
		(c)Insert an element .
		(d)Extract(Delete) the maximum
		(e)Delete a node.
4	Imnlei	ment Hean sort

5. Implement priority queue using Heap.

(hint:

À typical Priority Queue requires following operations to be efficient.

- 1. Get Top Priority Element (Get minimum or maximum).
- 2. Insert an element.
- 3. Remove top priority element.
