

**SSN COLLEGE OF ENGINEERING  
DEPARTMENT OF CSE**

**DATA STRUCTURES LABORATORY (CS8381)**

**Ex. No. 9 Implementation of Priority Queue using Min Heap**

Create an empty **Priority Queue** to hold a set of integers and perform the following operations on it using min heap property:

- (a) Insertion
- (b) Deletion
- (c) Display

Use the following structure for constructing priority queue:

```
struct heap
{
    int capacity;
    int size;
    elementtype *elements;
};
```

**All the inputs should be given from the main function. The C file should contain the main function and the header file should contain the structure and the implementation of operations.**