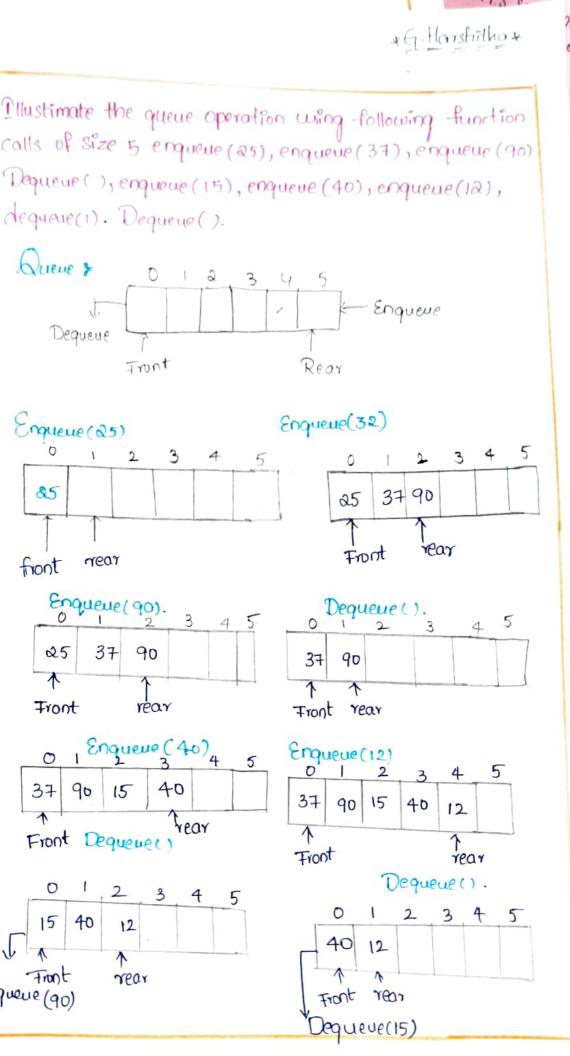
Assignment -3

Name := G. Harshitha
Reg No := 192324250

Partment := CSE(AI&DS)

Course Code := CSA0389

Course Name := Data Structure



```
)equeue (40)
rite a program to implement queue operation such
enqueue, display, dequeue.
        # include < stdio.h>
        # include < stdlib.h>
         # define < max[]
    -type def structs
          int items[max];
          int front; rear; &
           queue
       Void initialize (queue *q) {
           2-7 front = -1;
           2 -> 9/ear = -1; }
     void enqueue (queue *9, int value){
           if ( is full (2)) }
        Printf ( queue is full! (n");
          return;
   of (2-> front =-1){
     9-> Front = 0
       9-7 items [++9-> rear] = value;
 Printf ( " %d enqueued to queue In ", value);
```

void dequeue (queue +9) if (isempty(9)) { Printf ("(queue is empty 1 n"); return; Printf("/ddequed from queue/n", q -> items(q -> front +i] void display (queue *9) { if (is empty(a)){ Printf("queue is empty ! In"); return; Printf ("queue elements are: "); for (int i=q -> front, i <= 2 -> rear; i++){ Printf ("/d; q -> items[i]); Printf ("In"); int main c) { queue 9; initialize (+2); Enqueue () dequeue () display() return 0; 4.