## EAssignment - 3}

Mame : P. Ashritho

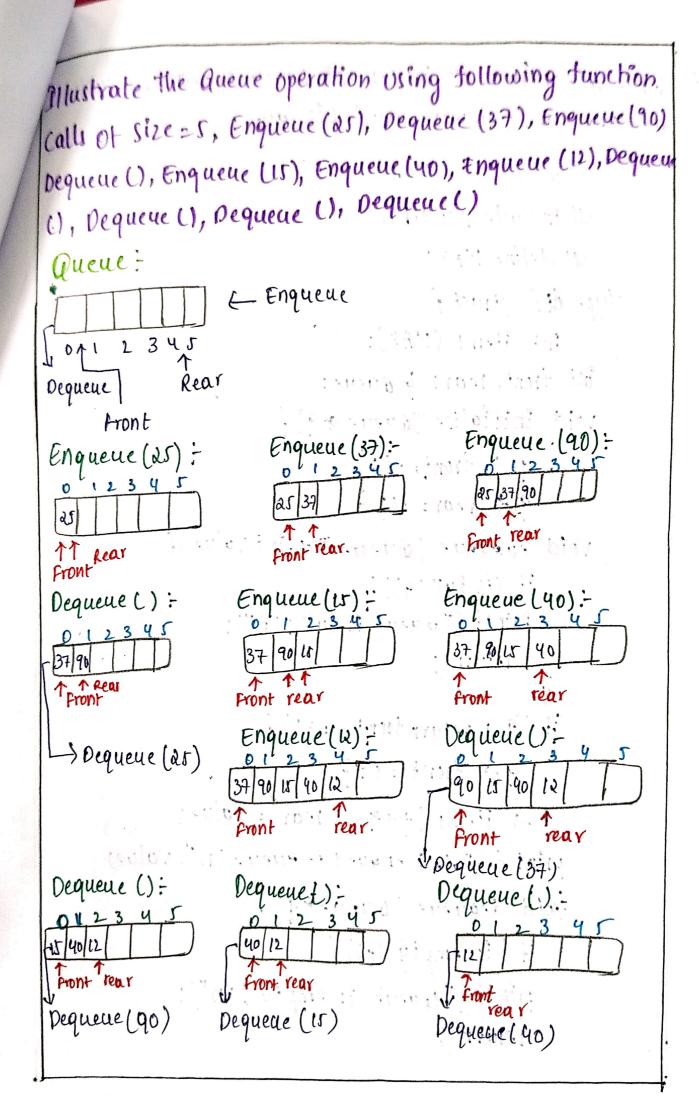
Register Number: 192372200

course Name : Datastructure for stack

course code : CSA0389

Submission date: 21-08-2024

Department : CSE-AI



```
ulrite a Cprogram to implement Queue operations such
as Enqueue, Dequeue and Display.
     # include Lstdio.ns
     #include 2stdib.h>
     # define MAXS
  type def struct {
       int items [MAX];
    int front, rear; 4 aueue;
    void initialize (queue * 9) {
       9-1 front=-1;
        9,7 rear = -1; }
   void enqueue (Queue + 9, int value){
      if (is full (q)) for the summer of
       : Printf ("Queue is full! (n");
        return;
     it (9-1 return front === 1) {
                                 Spequeue (23)
     61 09 7 of front = 0; 3 OF M AF FE
   9-1 items [++9-1 rear] = value;
     print foliblad enqued to queue [n', value)
    void dequeue (Queue 49) [
       if ( is compty (9)) {
       prints ("Queue is empty ! in");
     ( return ;
```

```
print (" . 1.d dequeued from Queue In", q -sitem (q-) front)
 void display (Queue *9) {
 if (is empty (9)){
It (is empty (9)){
  prints (" Queue is empty! in");
   return; 4
  Print+ (" Queue glement are: ");
for (int i= q-1 front; iz= q-1 rear; i++) {
  printf(".l.a", q→ items [i]);
   printf (" In");
int main () f
    Queue 9;
    Intialize (89);
   enqueue ()
   dequeuel)
   display W
   return 0;
```

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