```
Dake: 19/10/2020
Name S Skarda
USK :- 1BM 19CS137
# include < stolig.h>
# include (process.h)
# define GS 5
int item, front=0, rear = -1, g[10], rount=0;
{ if (count = = qs)
}
printf ("The queue is full In");
     rear = (rear + ) 4-95;
int delete ()
    { front = 0; rear = -1;
     item = g[front].
Front = (front + 1)% qs;
     return item;
```



void display(1 ¿ inti, f=Front if (count = =0) & print ("The queve is empty"); for (i=1; i <= (ount; i++) E print ("Yod " g[f]); f=(+1)y- qs; ist main () int choice () Eprinth C'Menuln 1. INSERT /2 Deleteln3. Display + Exit) printf("Enter your choice"); Switch (choice) ¿ case l'i printf ("Enter item to be inserted:"); Scarf (" doct", & item ). seport ( ): Case 2; item = delete 1); if (stem ==-1) printf ("The grove is empty In"); printfl'item deleted = vod in', item); case 3: display (); break; default: exit(0);

MENU Output 1. INSERT 2. Delete 3. Display 4-Exit Enter your choic: 2 item deleted=15 MENU 1. Insert 2. Delele 3. Display 4. Exit Entergourchoires 3
The greve items we;
16 7 18 14

Name & Skarda Date: 19/10/2020 USM IRMIACS137 Batch 2 2) Daveve # include < stdio.b> #include (process-h) # define gsize 5 int f=0, r=-1, chritem, q [10]; int isfull) { return (r==qsize-1)?1:033 int isempty () { return (fr) ? 1:0; } void insert-rear () 2 if (isfull()) ¿ prints ("queve overflow In"); r=r+1; q[r]=item; roid delete-Front() if (isempty)) {

E printf ("The queue is empty In"); printf ("item deleted is 7.d in" q[(A+)); if (for) { f=0; 3

void insert-front() 2; f(f1=0) £ h-= 1; alf J = item; return; else if ( == 0 ff ===-1) { a[++(r)]= item; return; else print ("insertion not possible In") void delete\_rear () Enf (is empty))

Eprint ("exempleded is Red In", Ger)--); if (isempty()) ¿ printf("Queue is empty In"); printf("item deleted is y.d ln", q[r)-] if (far) 3 f=0; roid display() ? int i; if ( isempty 1) 2 printfl"Queue (mpty In"); for (i=f; i <= rigity) printf(""/d", q[i]).



int mainl) { for (;;) E printf ("In loinsent-rear In 2 oinsert front In 3. delete-rear Int. delete-front In 5 display InGoexit In"); printf ("Enter choice:"); Scanf ("1.d, &ch); Switch (ch) { case!= printf ("Enter the item:"); Sconf ("y.d", & item); insert reap(); case 2 = printf ("Enter the item:"); Scant ("1. I" fitem); insert-front (); (ase 3: dedete=rear (); case 4: delete-front(); break; Case S: display ();
breat; default: exit (0);

13 insert-rear 2 insert front 3 delete-rear 4 delete-front 5 display 6 exit Enter choice: 3 Item deleted is 5