LAB-5 Lareas Queue Implement ation. WAP to simulate the working of a queue of ist using an array. Provide the following of water a) Insert 6) Delete The program should frint appropriate menages for quen () Display empty and queue overflow conditions. Aunduale extelio-h7 Hundude 2 stollib. h7 # define MAX 5 und fromt =0; int rear =-1; int queue [MAX]; void Enquer (int); int Deque(); word display(); int main () unt option;

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```
feint [" m 1. Inset to duene (En Rum)");
fruit !" In 2. delete from the lever (DeRum)"):
peint f [" n 3. Display the content ");
printf (" 1 m h. Exit \m");
peritt (" Enter the oftion: ");
scant ("-/-d", & oftion);
switch (oftion)
    core 1: printf ("Enter the elements \m");
              sauf ("-1.d, Liteur);
               Engre ( item);
               break;
      cox 2: item = Deque();
              if ( item = -1)
               frittel "Queue is coupty \"");
               printf (" Remove d'element from the
                         queue 1. d", item);
                break'
        ease 3: disfloy (9)
                  break;
         ease 4: exit(0);
                    greturer 0; 4
```

```
void Enque (int de)
     if ( rear = = MAX - 1)
       frattl' dume is full m');
         near ++;
         querre [rest] - de;
int Aleque ()
  int item; sl (2002==-1)

if (pront == 0)

roturn -1;
        item = queue [ front];
         front ++;
         if I front > read)
           retion item.
```

```
void display ()
   4 (pont = = 0) de hear = -1
      paintfol" Queue is emfty. \n");
       for ( i = front; i = red; i+4)
          fentf ("1.d", quare [i]);
expected output.
 1. I west to Julie (Enguere)
 2. delete from the durene (De Russe)
3. Display the content
 h. Exit
Enter the options: 1
Enter the elevent.
1. Inset to Queue (En Queue)
2. delete from the finne De hume).
3. Dirplay the content
u. Est
```

Enter the element 1. Danset to Duene (Endreue) 2 delete from the dueue (De dueue) 3. Diploy the content I Enter the option: 3. : due contents: 12 1. Insert to dum (Endum) 2. delete from the dueue (De dueue). 3. Display the content Entre tru oftion: 2 Removed element from the due 1. 9 met to dueue (En Jueue) 2. telete from the Queux (De Queux) 3. distay the contint
4. Essist
enter the oftion: 132

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Removed element from the fue 2 1. Insert to duere (Endure) 2. delete from the due (De duere) 3. Display the content 4 - Enit Enter the ofti an:2 Queuris Emply 1. Insert to dueue (Endueue) 2. delete from the dueur (Dedueur) (1) 20 100 100 3. Display the content 4. Enit Enter the oftions. If 1-05th 6 ha · Musti stay ("in/ wells colored.") Him (Changes) receip of town Ant of the mily left from the form the first