```
28/10/2020
                                            HEREN HEM
         WAP to implement double ended Queue (dequeue)
 LP #4
                                          () Synthesis toiov
         # include (stdio.n)
        # aujune QUE_SIZE B
         int item, front=0, rear=-1, q [QVE_SIZE], count =0;
         void insutrear ()
         if (count == &ve_SIZE)
         print ("queue overflow \n");
         suturn;
          near = (rear +1) 4. QUE_SIZE; (44)
          9, Erecus = item;
          count ++ ;
```

```
in- dute (sout ()
if (count ==0) retrien -1;
 item = 9 [front];
front = (front +1) 7. & UE_SIZE;
 count = count-1;
 return Hem;
void display & ()
 int i, b;
 if (wunt ==0)
print ("queue is empty \n");
 return;
f=front;
 printly ("wontents of queue \n").
for (i=1; i <= wunt; i++)
 printy ("Y.dn", g [f]);
 f = (f+1) 7. AUE-SIZE;
```

```
int main ()
int choice;
prints ("In 1. insertreur In 2. dutefront In 3. display In 4. exitIn").
printf L" enter the choice \n");
 Scanf ("Y.d", schoice);
 switch (unoice)
 case 1 printf ("enter the item to be inserted in");
        scant ("Y.d", sitem);
        insurrean();
       break;
case 2: item = deutefron+();
        it (item ==-1)
        printf l'queue a empty In");
        printly (" item deleted = Y.d \n", item);
       break;
case 3: display Q(); break;
 ayaut: break,
```

4	4	Page
	while (choice !=4);	int mair
	return D;	1363
	,	nit chair.
(14/4	IN INSENTRACION IN S. deceptions IN 3. distribut IN 4. ext	1 416mm
		10
		1
	eviter the chieve (10")	"J. Ariaco