USN : 1BM19CS038
Name: chandrashekhar. a Gouda

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#include<stdio.h>
#include<stdlib.h>
#define MAX 5
int front=0;
int rear=-1;
int queue[MAX];
void Enqueue(int);
int Dequeue();
void Display()
int main(int argc, char *argv)
{
  int option;
  int item;
do{
  printf("\n 1.Insert to Queue(Enqueue)");
  Printf("\n 2. delete from the queue(Dequeue)");
  Printf("\n 3. Display the content ");
  printf("\n 4. Exit\n");
  Scan
  Printf("%d", &option);
switch(option)
{
 case 1: printf(" Enter the element\n");
         scanf("%d", &item);
         Enqueue(item);
         break;
 case 2: item=Dequeue();
         if(item==-1)
          printf("queue is empty\n");
         else
         Printf("Removed element from the queue %d", item);
         break;
 case 3: display();
```

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        break;
case4 : Exit(0);
}
} while(option!=4);
  return0;
}
void Enque(int ele)
{
  rear++;
  queue[rear]=ele;
 }
}
int Dequeue()
{
 int item;
if (front==-1)
 return-1;
 else
{
item=queue[front];
front++;
 if(front>rear)
{
 front=-1;
 rear=-1;
}
return item;
}
}
 void display()
{
```

```
int i;
if(front == -1)
printf("queue is empty\n");
else
{
printf("\n queue contents:");
for(i= front; i<= rear; i++)
printf("%d", queue[i]);
}
}
```