```c
#include <stdio.h>
#define size 5
int arr[size];
int front=-1,rear=-1;

void enqueue(int data){
    if (rear==size-1){
        printf("\nQueue is Overflow...!");
        printf("-------------------------------------------------");
        return;
    }
    else{
        if (front==-1 && rear==-1)
        {
            front=rear=0;
            arr[rear]=data;
        }
        else
        {
          arr[++rear]=data;
        }
    }
}

void dequeue() {
  if (front==-1 && rear==-1)//if queue is empty
  {
     printf("Queue is Empty!!");
     printf("-------------------------------------------------");
     return 0;
  }
  else if(front==rear)//if queue has single element
  {
      printf("\nDeleted : %d\n", arr[front]);
      front=rear=-1;
  }

  else
  {
    printf("\nDeleted : %d\n", arr[front++]);
  }
}


void display(){
    if((front==-1)&&(rear==-1)){
        printf("The Queue is empty..!\n");
        printf("-------------------------------------------------");
        return 0;
    }
    else{
        for(int i=front;i<=rear;i++){
            printf("\n%d\n",arr[i]);
        }
    }
}


int main(){
    int x,data;

    while(1)
    {
        printf("\nQueue operations\n1) Enqueue\n2) Dequeue\n3) Display\n4) Exit\nEnter the
Queue operations:");
```

```
        scanf("%d",&x);
        switch(x)
        {
        case 1:
              printf("Enter the inserting element:");
              scanf("%d",&data);
              enqueue(data);
              break;
        case 2:
              dequeue();
              break;
        case 3:
              display();
              break;
        case 4:
              printf("Exited...!");
              printf("\n-----------------------------------------------");
              exit(0);
        default:
            printf("Invalid choice.Please enter 1 to 5");
            break;

        }
    }

}
```