LAB-3

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#include <stdio.h>
#include <process.h>
#include <conio.h>
#define QUE_SIZE 3
int item, front=0, rear=-1, q[10];
void insertrear()
{
if (rear == QUE_SIZE-1)
{
pf ("Queue OF\n");
return;
}
rear = rear+1;
q[rear] = item;
}
int deletefront()
{
if (front>rear)
{
front=0;
rear=-1;
return -1;
}
return q[front++];
}
void displayQ()
{
int i;
if (front>rear)
pf ("queue is empty\n");
```

```
    return;
}
pf("Contents of queue\n");
for(i=front; i<=rear; i++)
  {
    pf("%d\n", q[i]);
  }
void main()
  {
    int choice;
    for(;;)
  {
pff("1: Insertrear\n2: deletefront\n3: display\n4:
                                        exit\n");
    pf("Enter your choice\n");
      sf("%d\n", &choice);
    switch(choice)
    {
case 1: pf("Enter the item to be inserted\n");
        sf("%d", &item);
        insertrear();
        break;
case 2: item=deletefront();
        if(item == -1)
          pf("queue is empty\n");
      else
      pf("item deleted = %d\n", item);
            break;
      case 3: display();
            break;
      default: exit(0);
        }
  }
}
```