Neha B Chadaga
1BM19CS098

28/10/2020

WEEK 6: Program to simulate working of ~~Queue~~ of circular queue.

Algorithm:

Step 1: [Method to insert at rear]:

```
if (count = Queue Size
    print "Queue Overflow"
rear = (rear+1) % Queue Size
q[rear] = item
count = count + 1
```

Step 2: [Method to delete at front]

```
if count = 0
    return -1 (as Queue underflow)
item = q[front]
front = (front+1) % Queue Size
count = count - 1
return item
```

Step 3: [Method to display]

```
if count = 0
    print "Queue is empty"
Contents of Queue:
for(i = 1; i <= count ; i+1)
    print q[f]          // f - front
    f = (f+1) % Queue Size
```

Step 4: Main method.

```
print("Enter choice :
        1. Insert at rear
        2. Delete at front
        3. Display
        4. Exit")
    )
switch(choice)
  case 1 : print("Enter item to be inserted :")
           insertrear();
  case 2 : item = deletefront();
           if item = -1
              print("Queue empty")
           else
              print("item deleted = ", item)
  case 3 : display();
  case 4 : exit(0);
```