16/10/20

Program 3 (Linear Queue)

```
void push(int d) {
    if (rear == MAX-1) {
        printf("Queue is full\n");
    }
    else
    {
    rear = rear + 1;
    queue[rear] = d;
    }
}

int pop() {
    int item;
    if (front == -1)
        return -1;
    else
    {
        item = queue[front];
        front++;
        if (front > rear)
        {
            front = -1;
            rear = -1;
        }
        return item;
    }
}
```

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