WEEK 3

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#include<stdio.h>
#include<stdlib.h>
#define max 3
int queue[max];
int rear=-1;
int front=-1;
void display()
  int i;
  if(front==-1)
     printf("Queue is empty \n");
  else
  {
     printf("Queue:");
     for(i=front;i<=rear;i++)</pre>
        printf("%d ",queue[i]);
     printf("\n");
}
void insert()
  int value;
  if(rear==max-1 && front==0)
     printf("Queue overflow \n");
  else if(rear==max-1)
     printf("You cannot enter any value \n");
  else
     if(front==-1)
        front=0;
     printf("Insert element in queue:");
     scanf("%d",&value);
     rear=rear+1;
     queue[rear]=value;
  }
```

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}
void delete()
  if(front==-1||front>rear)
     printf("Queue is Empty \n");
  else if(front==rear)
     front=-1;
     rear=-1;
  }
  else
     queue[front++];
  }
}
void main()
  int ch;
  while(1)
     printf("1.Insert \n2.Delete \n3.Display \n4.Exit \n");
     scanf("%d",&ch);
     printf("\n\n");
     switch(ch)
     case 1: insert();
           break;
     case 2: delete();
           break;
     case 3: display();
           break;
     case 4: exit(0);
     default:printf("Invalid Input \n");
}
```