Implementation of Queue using Array

```
#include<stdio.h>
#include<conio.h>
#define max 5
int queue[max];
int rear = -1;
int front = 0;
// function for insert element into queue
void insert()
{
   int element;
   if(rear==max-1)
    printf("\nqueue is overflow");
   else
   {
         if(rear = = -1)
         printf("\nEnter a value:");
         scanf("%d",&element);
         rear+=1;
         queue[rear]=element;
   }
}
// function for delete element from the queue
void delete()
{
   int element;
   if(rear < front)
    printf(" underflow condition\n");
   else
   {
         element=queue[front];
         front+=1;
         printf("%d is deleted\n",element);
   }
}
// function for display all the element of the queue
void display()
{
   int i;
   if(rear = = -1)
```

```
     printf("Underflow condition\n");
    else
    {
    for(i=front; i<=rear; i++)
      printf("%d\n",queue[i]);
    }
}
// Driver function
void main()
{
    int ch;
    printf("1. insert element\n");
    printf("2. delete element\n");
    printf("3. display element\n");
    printf("4. exit\n");
    while(1)
    {
            printf("Enter your choice:");
            scanf("%d",&ch);
            switch(ch)
            {
               case 1: insert();
                       break;
               case 2: delete();
                       break;
               case 3: display();
                        break;
               case 4: exit(0);
               default: printf("\nWrong key");
            }
    }
}
```