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#include <stdio.h>
#include <stdlib.h>
#include <conio.h>
#define n 5
void main()
{
    int queue[n], ch = 1, front = 0, rear = 0, i, j = 1, x = n;
    system("cls"); // clrscr();
    printf("Queue using Array");
    printf("\n1.Insertion \n2.Deletion \n3.Display \n4.Exit");
    while (ch)
    {
        printf("\nEnter the Choice:");
        scanf("%d", &ch);
        switch (ch)
        {
            case 1:
                if (rear == x)
                    printf("\n Queue is Full");
                else
                {
                    printf("\n Enter no %d:", j++);
                    scanf("%d", &queue[rear++]);
                }
                break;
            case 2:
                if (front == rear)
                {
                    printf("\n Queue is empty");
                }
                else
                {
                    printf("\n Deleted Element is %d", queue[front++]);
                    x++;
                }
                break;
            case 3:
                printf("\n Queue Elements are:\n ");
                if (front == rear)
                    printf("\n Queue is Empty");
                else
                {
                    for (i = front; i < rear; i++)
                    {
                        printf("%d", queue[i]);
                        printf("\n");
                    }
                    break;
                }
            case 4:
                exit(0);
            default:
                printf("Wrong Choice: please see the options");
        }
    }
    getch();
}

```