

6/01/2024

WEEK-3

```
#include <stdio.h>
```

```
#define m 5
```

```
int main()
```

```
{
```

```
int queue[m], ch=1, front=0, rear=0, i, j=1, x;
```

```
printf("Queue using array");
```

```
printf("\n 1. Inserting 2. Deletion 3. Display  
4. Exit");
```

```
while(ch)
```

```
{
```

```
printf("Enter 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.");
```

```
}
```

```
}
```

```
}
```

```
return 0;
```

```
}
```

Output:- Queue using array

- 1) Inserting
- 2) Deleting
- 3) Display
- 4) Exit

Enter the choice: 1

Enter no: 27

Enter the choice: 1

Enter no: 37

Enter the choice: 3

Queue elements are:

27

37

Enter the choice : 2
Deleted Element is 27

Enter the choice : 4
exit

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