

LAB PROGRAM-4

Working of queue using array

Pseudocode :

define size 5.

int arr [size];

int rear = -1; front = -1;

void Enqueue()

{

int item;

if (rear == (size - 1))

printf ("Overflow\n");

else {

if (front == -1)

front = 0;

scanf ("%d", &item);

rear = rear + 1;

arr [rear] = item;

}

}

void Dequeue()

{

if (front == rear - 1 || front > rear)

printf ("Underflow\n");

return;

}

else {

printf ("Deleted %d", arr [front]);

front = front + 1;

}

}

```
void Display ()  
{
```

```
    int i;
```

```
    if (front == -1)
```

```
        printf ("Queue empty\n");  
    else {
```

```
        for (i = front; i <= rear; i++)  
        {
```

```
            printf ("%d", arr[i]);
```

```
        }  
        printf ("\n");
```

```
    }
```

```
}
```

```
}
```