Main.java | Output

```
1  import java.util.Scanner;
2  import java.util.InputMismatchException;
3
4  public class JavaQueue {
5
6  private static int[] queue = new int[5];
7  private static int counters = 0;
8
9  private static boolean queueStorage() {
10     if(counters < queue.length) {
11         return true;
12     }
13     else {
14         return false;
15     }
16 }
17
18 private static void createQueue() {
19     int loopX = 0;
20     int alpha = 0;
21     while(loopX == 0) {
22         System.out.print("Masukkan Data
               (angka): ");
23         Scanner alphaX = new Scanner(System
               .in);
24         try {
25             alpha = alphaX.nextInt();
26             loopX = 1;
27         }
28         catch(InputMismatchException e) {
29             System.out.println("Masu
                   harus berupa Angka!");
```

Run

```
30              loopX = 0;
31          }
32      }
33      queue[counters] = alpha;
34      counters++;
35  }
36
37  private static void removeQueue() {
38      if(counters == 0){
39          System.out.println("Belum ada
                antrian!");
40      }
41      else{
42          counters--;
43          for(int i = 0; i < counters; i++) {
44              queue[i] = queue[i + 1];
45          }
46          System.out.println("Data pertama
                dalam queue sudah dikeluarkan"
                );
47      }
48  }
49
50  private static void removeQueueByPosition
        (){
51      if(counters == 0){
52          System.out.println("Belum ada
                antrian!");
53      }
54      else{
55          displayDataQueue();
```

Main.java | Output

```
60              System.out.print("Masukkan
                    posisi (0 - "+(counters-1
                    )+"): ");
61              Scanner alphaX = new Scanner
                    (System.in);
62              try {
63                  alpha = alphaX.nextInt();
64                  if(alpha > counters){
65                      System.out.println
                         ("Tidak ada data di
                         posisi tersebut!");

66                      loopX = 0;
67                  }
68                  else{
69                      counters--;
70                      for(int i = alpha; i <
                         counters; i++){
71                          queue[i] = queue[i
                         +1];
72                      }
73                      displayDataQueue();
74                      System.out.println
                         ("Antrian index ke: "
                         +alpha+" telah
                         dihapus!");
75                      loopX = 1;
76
77                  }
78
79              }
80              catch(InputMismatchException e)
```

Run

Main.java | Output

```
80                  catch(InputMismatchException e)
                    {
81                      System.out.println("Masukan
                            harus berupa Angka!");
82                      loopX = 0;
83                  }
84              }
85          }
86      }
87
88      private static void displayDataQueue() {
89          System.out.print("Data dalam Queue: ");
90          for(int i = 0; i < counters; i++) {
91              System.out.print(" ["+i+" => "
                    +queue[i]+"]" );
92          }
93          System.out.println("");
94      }
95
96      private static void cleanQueue() {
97          counters = 0;
98      }
99
100     private static void quitApp() {
101         String quitss = "y";
102         System.out.print("Keluar dari Program?
                (Y/T): ");
103         quitss = new Scanner(System.in
                ).nextLine();
104         if(quitss.equalsIgnoreCase("y")) {
105             System.exit(0);
106         }
```

Run

Main.java | Output

```
106     }
107     else {
108         menuProgram();
109     }
110 }
111
112 private static void menuChooser(int
        choosenMenu) {
113     switch(choosenMenu) {
114         case 1:
115             boolean check = queueStorage();
116             if(check) {
117                 createQueue();
118             }
119             else {
120                 System.out.println("Antrian
                        Penuh!, kosongkan data
                        satu terlebih dahulu!"
                        );
121             }
122             break;
123         case 2:
124             removeQueue();
125             break;
126         case 3:
127             removeQueueByPosition();
128             break;
129         case 4:
130             System.out.println("Status
                        Storage: ");
131             System.out.println("Kapa
                        " + queue.length);
```

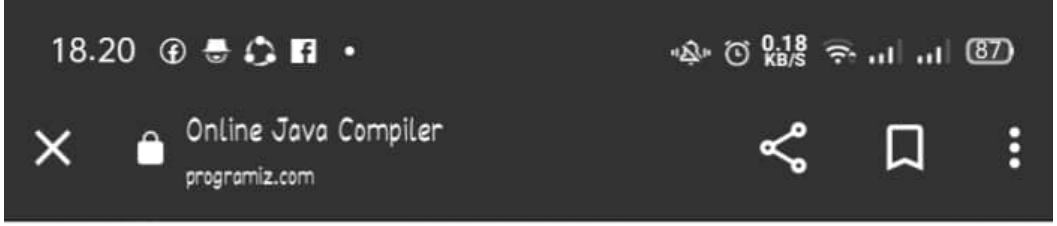
Run

```
131             System.out.println("Kapasitas:
                    " + queue.length);
132             System.out.println("Terisi   :
                    " + counters);
133             break;
134         case 5:
135             displayDataQueue();
136             break;
137         case 6:
138             cleanQueue();
139             break;
140         case 7:
141             quitApp();
142             break;
143     }
144     menuProgram();
145 }
146
147 private static void menuProgram() {
148     int loopX = 0;
149     int choosenMenu = 0;
150     while(loopX == 0) {
151         System.out.println("\nContoh
                Program Queue dengan Java");
152         System.out.println("Menu: ");
153         System.out.println("1. Tambah
                Queue");
154         System.out.println("2. Keluarkan 1
                data dari Queue");
155         System.out.println("3. Keluarkan 1
                data dari posisi tertent
156         System.out.println("4. Status
```

Main.java | Output

```
                data dari Queue");
155         System.out.println("3. Keluarkan 1
                data dari posisi tertentu");
156         System.out.println("4. Status
                Queue");
157         System.out.println("5. Tampilkan
                data dalam Queue");
158         System.out.println("6. Bersihkan
                Queue");
159         System.out.println("7. Keluar dari
                Program");
160         System.out.print("Pilihan Menu (1 -
                7) >>> ");
161         Scanner menuOption = new Scanner
                (System.in);
162         try {
163             choosenMenu = menuOption
                    .nextInt();
164             loopX = 1;
165         }catch(InputMismatchException e) {
166             System.out.println("Masukan
                    harus Angka!");
167         }
168     }
169     System.out.println("");
170     menuChooser(choosenMenu);
171 }
172
173 public static void main(String[] args) {
174     menuProgram();
175 }
176 }
```

Run



Programiz
Online Java Compiler

Java Course

Main.java | Output

```
java -cp /tmp/TXrW35wmDW JavaQueue
Contoh Program Queue dengan JavaMenu:
1. Tambah Queue
2. Keluarkan 1 data dari Queue
3. Keluarkan 1 data dari posisi tertentu
4. Status Queue
5. Tampilkan data dalam Queue
6. Bersihkan Queue
7. Keluar dari Program
Pilihan Menu (1 - 7) >
```