```java
import java.util.*;

//document name and content print class
class Document
{
    private String docName,text;

    public Document(String docName,String text)
    {
      this.docName = docName;
      this.text = text;
    }
    public String getText()
    {
        return text;
    }
    @Override
    public String toString()
    {
         return "Document [docName=" + docName + ", text=" + text + "]";
    }
 }

/*  Class arrayQueue input size of queue through array  */
class arrayQueue
{
    Document Queue[];
    int front=-1,rear=-1,size,len;
    public arrayQueue(int n)
    {
        size = n;
        len = 0;
        Queue = new Document[size];
        front = -1;
        rear = -1;
    }

    /* Function to insert an element to the queue */
    public void enqueue(Document n)
    {
        //it execute when queue is full
        if (rear == size-1)
        {
            System.out.println("Queue is Full");
        }
        //it execute when queue is empty
        else if (front==-1 && rear==-1)
        {
            //front and rear at zero position
            front=rear=0;
            //always insert data from rear side and n is element
            Queue[rear]=n;
        }
        //it execute when insert element in next position
        else
        {
            //icrement position until queue is full
            rear++;
            Queue[rear] = n;
        }
        //when insert element size is increase
        len++;
    }

    /*Function to remove front element from the queue */
    public void dequeue()
    {
        if (front==-1 && rear==-1)
        {
```

```
            System.out.println("Queue is Empty");
        }
        //it method execute when front and rear at same position
        else if(front==rear)
        {
            front=rear=-1;
        }
        else
        {
            System.out.println("Deleted Queue is = "+Queue[front]);
            //front increament for next position
            front++;
        }
        //when delete element size is decrease
        len--;
    }

    /*  Function to get the size of the queue */
    public int getSize()
    {
        return len ;
    }

    /*  Function to check the front element of the queue */
    Document peek()
    {
        if (front==-1 && rear==-1)
        {
            System.out.println("Queue is Empty");
        }
        return Queue[front];

    }

    /* Function to display the status of the queue */
    public void display()
    {
        System.out.print("\nQueue = ");     //it print queue element

        if (front==-1 && rear==-1)
        {
            System.out.print("Queue is Empty\n");
        }
        else
        {
            //suppose front 0 and rear at 2 pos then it compare until front value
            greater or equal to rear
            for (int i=front;i<rear+1;i++)
            System.out.print(Queue[i]+" ");
        }
        System.out.println();
    }
}

/* Class QueueImplement  */
public class PrintDocument
{
    public static void main(String s[])
    {

        Scanner scan = new Scanner(System.in);
        System.out.println();
        System.out.println("***Printing A Document***\n");
        System.out.println("Enter Size of Queue: ");
        int n = scan.nextInt();

        /* creating object of class arrayQueue */
        arrayQueue q = new arrayQueue(n);
        /* Perform Queue Operations */
```

```
138
139         int choice;
140
141         do
142         {
143             System.out.println("\n\t##Choose 1 to 5##");
144             System.out.println("\t1. Insert Document");
145             System.out.println("\t2. Delete Document");
146             System.out.println("\t3. Display Front Document");
147             System.out.println("\t4. Queue size");
148             System.out.println("\t5. Exit");
149             System.out.println("Enter your Choice: ");
150             choice = scan.nextInt();
151
152             switch (choice)
153             {
154                 case 1 :
155                     System.out.println("Enter File Name: ");
156                     String name= scan.next();
157                     System.out.println("Type File Content: ");
158                     String text = scan.next();
159                     Document doc = new Document(name,text);
160                     q.enqueue(doc);
161                     break;
162                 case 2 :
163                     System.out.println();
164                     q.dequeue();
165                      break;
166                 case 3 :
167                     System.out.println();
168                     System.out.println("Front Document = "+q.peek());
169                     break;
170                 case 4 :
171                     System.out.println();
172                     System.out.println("Size = "+ q.getSize());
173                     break;
174                 case 5 :
175                     System.exit(0);
176                     break;
177                 default :
178                     System.out.println("Wrong Entry \n ");
179                     break;
180             }
181             /* display Queue */
182             q.display();
183         } while (choice !=5);
184
185     }
186 }
```