

Coding :

```
import java.io.*;
import java.text.DecimalFormat;
import java.util.Formatter;
import java.util.StringTokenizer;

public class HotelRoom {
    public static void main(String[] args) throws IOException
    {
        Formatter formatter;
        DecimalFormat df = new DecimalFormat("#0.00");
        try{
            String name, ic, roomtype;
            int days;
            double deposit, total_payment, balance, priceperday = 0;

            FileReader fr = new FileReader("HotelRoom.txt");
            BufferedReader br = new BufferedReader(fr);

            FileWriter fw = new FileWriter("TotalPayment.txt");
            PrintWriter pw = new PrintWriter(fw);
            FileWriter fw2 = new FileWriter("FinalPayment.txt");
            PrintWriter pw2 = new PrintWriter(fw2);

            String line = br.readLine();
            formatter = new Formatter();

            pw.println(formatter.format("%-60s %n", "TOTAL PAYMENT"));
            formatter = new Formatter();
            pw.println(formatter.format("%-40s %-20s %-20s %-15s %14s", "CUSTOMER
NAME", "IC NUMBER", "TYPE OF ROOM", "NUMBER OF DAYS", "TOTAL (RM)"));

            formatter = new Formatter();
            pw2.println(formatter.format("%-75s %n", "FINAL PAYMENT"));
            formatter = new Formatter();
            pw2.println(formatter.format("%-40s %-20s %-15s %-15s %-15s", "CUSTOMER
NAME", "IC NUMBER", "DEPOSIT", "TOTAL", "BALANCE"));
            while (line != null)
            {
                StringTokenizer st = new StringTokenizer(line, ";");
                name = st.nextToken();
                ic = st.nextToken();
                roomtype = st.nextToken();
                days = Integer.parseInt(st.nextToken());
                deposit = Double.parseDouble(st.nextToken());

                if (roomtype.equalsIgnoreCase("Superior")) {
                    priceperday = 450.0;
                } else if (roomtype.equalsIgnoreCase("Deluxe")) {
                    priceperday = 550.0;
                } else if (roomtype.equalsIgnoreCase("Premium")) {
                    priceperday = 750.0;
                }
                total_payment = priceperday * days;
                balance = total_payment - deposit;

                formatter = new Formatter();
                pw.println(formatter.format("%-40s %-20s %-20s %-15s %10s", name,
ic, roomtype, days, total_payment));

                formatter = new Formatter();
                pw2.println(formatter.format("%-40s %-20s %-15s %-15s %-15s", name,
ic, deposit, total_payment, balance));

                line = br.readLine();
            }
            pw.close();
        }
```

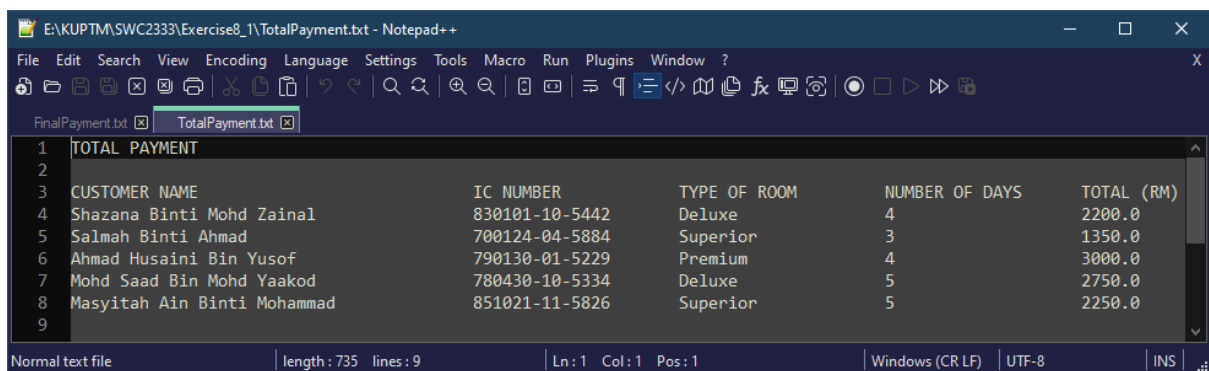
```

        pw2.close();
        br.close();
    } catch (FileNotFoundException fnf) {
        System.out.print(fnf.getMessage());
    } catch (EOFException ex) {
        System.out.println(ex.getMessage());
    } catch (IOException io) {
        System.out.print(io.getMessage());
    } catch (Exception nf) {
        System.out.print(nf);
    } finally {
        System.out.println("System ends here... Bye Bye");
    }
}
}

```

Output :

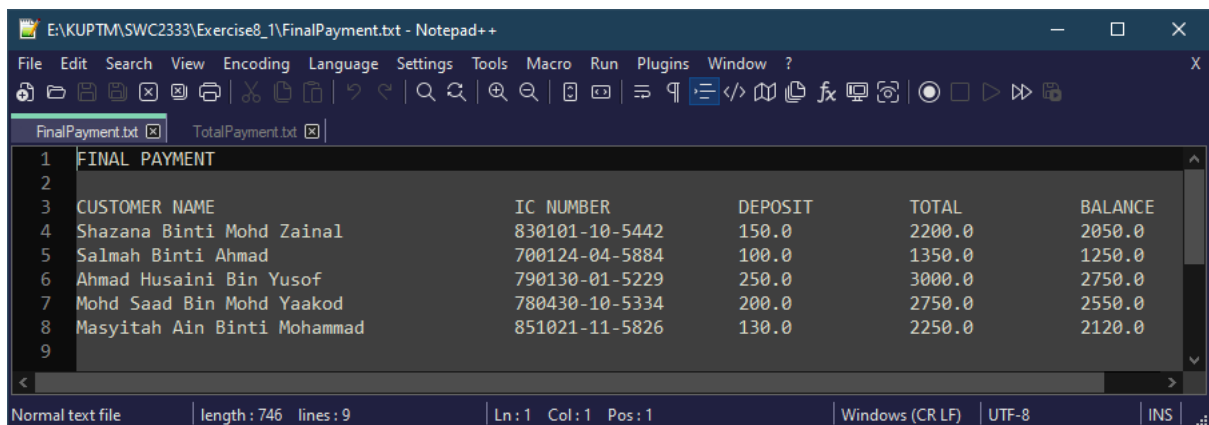
TotalPayment.txt



The screenshot shows a Notepad++ window titled "E:\KUPTM\SWC2333\Exercise8_1\TotalPayment.txt - Notepad++". The file contains a table with 5 columns: CUSTOMER NAME, IC NUMBER, TYPE OF ROOM, NUMBER OF DAYS, and TOTAL (RM). The table lists 5 customers and their respective details.

CUSTOMER NAME	IC NUMBER	TYPE OF ROOM	NUMBER OF DAYS	TOTAL (RM)
Shazana Binti Mohd Zainal	830101-10-5442	Deluxe	4	2200.0
Salmah Binti Ahmad	700124-04-5884	Superior	3	1350.0
Ahmad Husaini Bin Yusof	790130-01-5229	Premium	4	3000.0
Mohd Saad Bin Mohd Yaakod	780430-10-5334	Deluxe	5	2750.0
Masyitah Ain Binti Mohammad	851021-11-5826	Superior	5	2250.0

FinalPayment.txt



The screenshot shows a Notepad++ window titled "E:\KUPTM\SWC2333\Exercise8_1\FinalPayment.txt - Notepad++". The file contains a table with 5 columns: CUSTOMER NAME, IC NUMBER, DEPOSIT, TOTAL, and BALANCE. The table lists 5 customers and their respective details, including deposit and balance amounts.

CUSTOMER NAME	IC NUMBER	DEPOSIT	TOTAL	BALANCE
Shazana Binti Mohd Zainal	830101-10-5442	150.0	2200.0	2050.0
Salmah Binti Ahmad	700124-04-5884	100.0	1350.0	1250.0
Ahmad Husaini Bin Yusof	790130-01-5229	250.0	3000.0	2750.0
Mohd Saad Bin Mohd Yaakod	780430-10-5334	200.0	2750.0	2550.0
Masyitah Ain Binti Mohammad	851021-11-5826	130.0	2250.0	2120.0