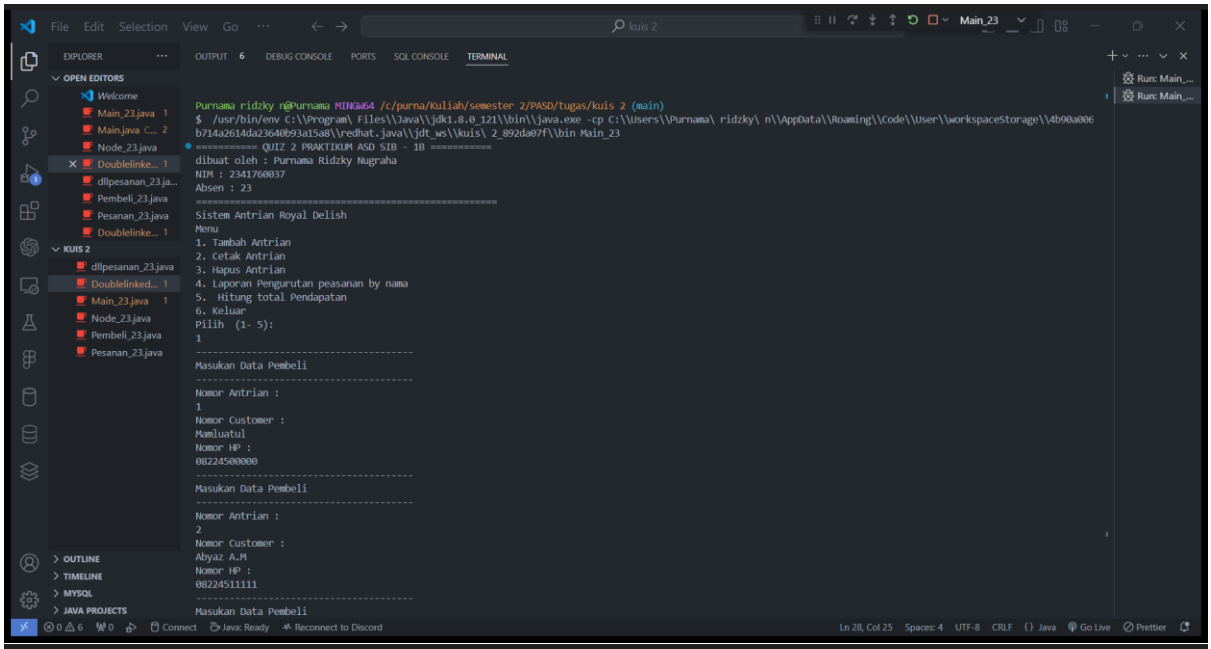
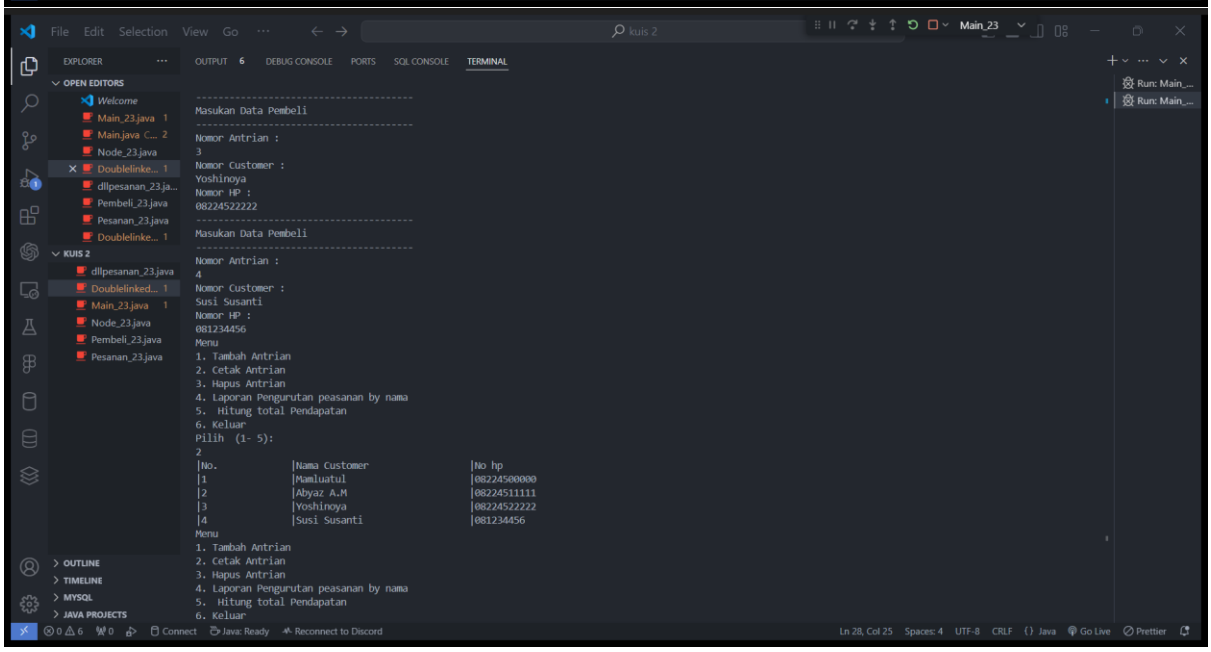
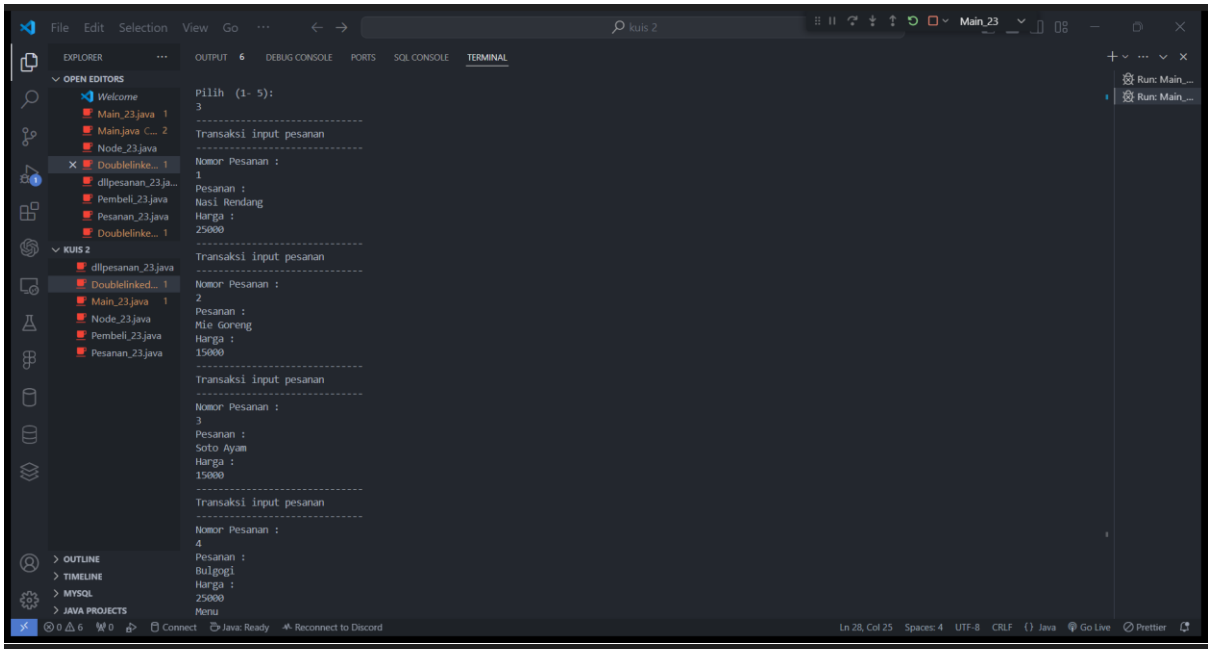
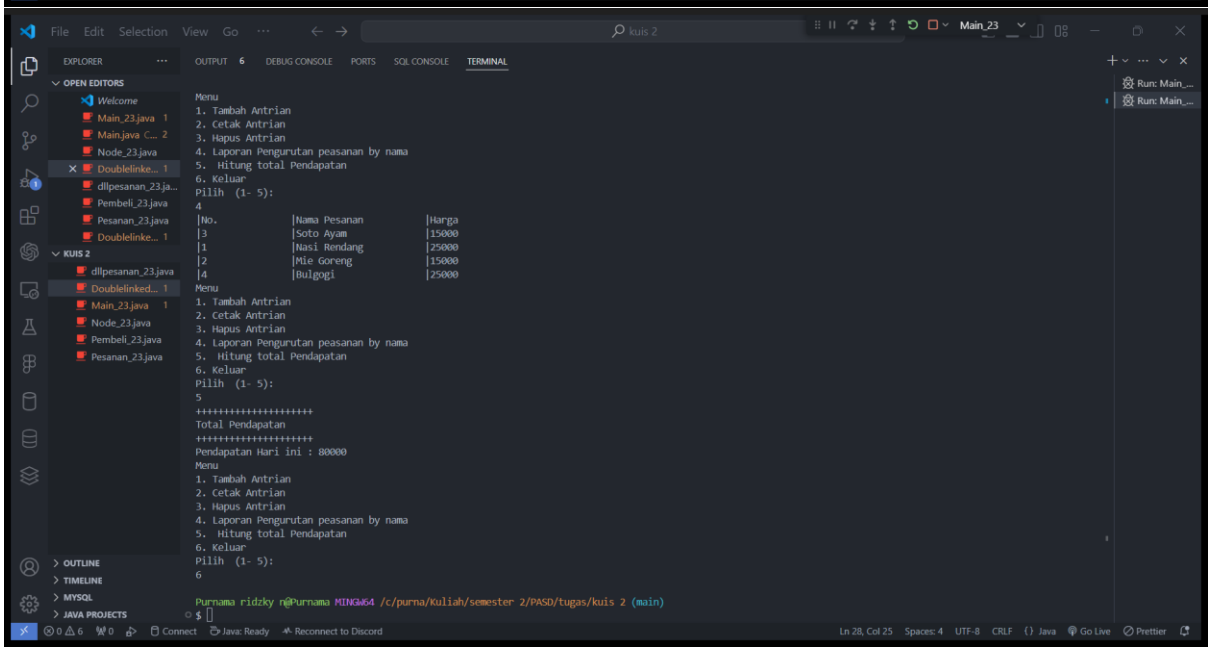
Nama : Purnama Ridzky Nugraha
Nim : 2341760037
No Absen : 23
Jurusan : Teknologi Informasi
Prodi : D-IV Sistem Informasi Bisnis
Kelas : 1B
Tugas : PASD Jobsheet Queue









File pembeli_23

```java
public class Pembeli_23 {
    String namaPembeli;
    String NoHp ;

    Pembeli_23(String namaPembeli, String NoHp){
        this.namaPembeli = namaPembeli;
        this.NoHp = NoHp;
    }
}
```

File pesanan_23

```java
public class Pesanan_23 {
    int kodePesanan ;
    String namaPesanan;
    int harga;
    Pesanan_23 prev, next;

    Pesanan_23 (Pesanan_23 prev,int kodePesanan, String namaPesanan , int harga,Pesanan_23 next){
        this.prev = prev;
        this.kodePesanan = kodePesanan;
        this.namaPesanan = namaPesanan;
        this.harga = harga;
        this.next=next;
    }
}
```

File Node_23

```java
public class Node_23 {
    int antrian ;

    Pembeli_23 data;
    Node_23 prev, next;

    Node_23(Node_23 prev,int antrian, Pembeli_23 data, Node_23 next) {
        this.prev = prev;
        this.antrian = antrian;

        this.data = data;
        this.next = next;
    }

}
```

File Doublelinkedlist_23

```java
import javafx.scene.Node;

public class Doublelinkedlist_23 {
    Node_23 head;
    int size;

    public Doublelinkedlist_23() {
        head = null;
        size = 0;

    }

    public boolean isEmpty() {
        return head == null;
    }

    public void addFirst(int antrian, Pembeli_23 data) {
        if (isEmpty()) {
            head = new Node_23(null, antrian , data, null);
        } else {
            Node_23 newNode = new Node_23(null, antrian , data, head);
            head.prev = newNode;
            head = newNode;
        }
        size++;
    }
    public void addLast(int antrian, Pembeli_23 data) {
        if (isEmpty()) {
            addFirst( antrian , data);
        } else {
            Node_23 Current = head;
            while (Current.next != null) {
                Current = Current.next;
            }
            Node_23 newNode = new Node_23(Current,  antrian , data, null);
            Current.next = newNode;
            size++;
        }
    }


    public int size() {
        return size;
    }

    public void clear() {
        head = null;
        size = 0;
    }

    public void print() {
        if (!isEmpty()) {
            Node_23 tmp = head;
            System.out.println("|No.\t\t |Nama Customer \t\t |No hp");
            while (tmp != null) {
                System.out.println("|"+tmp.antrian+"\t\t
|"+tmp.data.namaPembeli+"\t\t\t |"+tmp.data.NoHp);
                tmp = tmp.next;
            }

        } else {
            System.out.println("Antrian Kosong");
        }

    }
    public void removeFirst() throws Exception {
        if (isEmpty()) {
            throw new Exception("Film masih kosong, tidak dapat
dihapus!");
        } else if (size == 1) {
            removeLast();
        } else {
            head = head.next;
            head.prev = null;
            size--;
        }
    }
    public void removeLast() throws Exception {
        if (isEmpty()) {
            throw new Exception("Antrian masih kosong, tidak dapat
dihapus");
        } else if (head.next == null) {
            head = null;
            size--;
            return;
        }
        Node_23 current = head;
        while (current.next.next != null) {
            current = current.next;
        }
        current.next = null;
        size--;
    }




}
```

File dllpesanan_23

```
public class dllpesanan_23 {
    Pesanan_23 head;
    int size;

    public dllpesanan_23() {
        head = null;
        size = 0;

    }

    public boolean isEmpty() {
        return head == null;
    }

    public void addFirst(int kodePesanan, String namaPesanan , int harga)
{
        if (isEmpty()) {
            head = new Pesanan_23(null, kodePesanan , namaPesanan, harga,
null);
        } else {
            Pesanan_23 newNode = new Pesanan_23(null, kodePesanan ,
namaPesanan, harga, head);
            head.prev = newNode;
            head = newNode;
        }
        size++;
    }
    public void addLast(int kodePesanan, String namaPesanan , int harga) {
        if (isEmpty()) {
            addFirst( kodePesanan , namaPesanan, harga);
        } else {
            Pesanan_23 Current = head;
            while (Current.next != null) {
                Current = Current.next;
            }
            Pesanan_23 newNode = new Pesanan_23(Current,  kodePesanan ,
namaPesanan, harga, null);
            Current.next = newNode;
            size++;
        }
    }


    public int size() {
        return size;
    }

    public void clear() {
        head = null;
        size = 0;
    }

    public void print() {
        if (!isEmpty()) {
            Pesanan_23 tmp = head;
            System.out.println("|No.\t\t |Nama Pesanan \t\t |Harga");
            while (tmp != null) {

                System.out.println("|"+tmp.kodePesanan+"\t\t
|"+tmp.namaPesanan+"\t\t |"+tmp.harga);
                tmp = tmp.next;
            }

        } else {
            System.out.println("Antrian Kosong");
        }

    }

    public void removeLast() throws Exception {
        if (isEmpty()) {
            throw new Exception("Antrian masih kosong, tidak dapat
dihapus");
        } else if (head.next == null) {
            head = null;
            size--;
            return;
        }
        Pesanan_23 current = head;
        while (current.next.next != null) {
            current = current.next;
        }
        current.next = null;
        size--;
    }



    public void selectionSortDesc() {
        if (head == null) {
            return;
        }
        Pesanan_23 current = head;
        while (current != null) {
            Pesanan_23 maxNode = current;
            Pesanan_23 temp = current.next;
            while (temp != null) {
                if (temp.namaPesanan.compareTo(maxNode.namaPesanan) > 0) {
                    maxNode = temp;
                }
                temp = temp.next;
            }

            int tempKode = current.kodePesanan;
            String tempNama = current.namaPesanan;
            int tempHarga = current.harga;

            current.kodePesanan = maxNode.kodePesanan;
            current.namaPesanan = maxNode.namaPesanan;
            current.harga = maxNode.harga;

            maxNode.kodePesanan = tempKode;
            maxNode.namaPesanan = tempNama;
            maxNode.harga = tempHarga;

            current = current.next;
        }
    }
    public void hitungTotalPendapatan() {
        if (!isEmpty()) {
            Pesanan_23 tmp = head;
            int totalPendapatan = 0;
            while (tmp != null) {
                totalPendapatan += tmp.harga;
                tmp = tmp.next;
            }
            System.out.println("Pendapatan Hari ini : " +
totalPendapatan);
        } else {
            System.out.println("Antrian kosong, tidak ada pendapatan!");
        }
    }
}
```

File main

```
import java.util.Scanner;

public class Main_23 {

    public static void main(String[] args) {
        Scanner purnama = new Scanner(System.in);
        System.out.println("========== QUIZ 2 PRAKTIKUM ASD SIB - 1B
==========");
        System.out.println("dibuat oleh : Purnama Ridzky Nugraha ");
        System.out.println("NIM : 2341760037");
        System.out.println("Absen : 23 ");

 System.out.println("=================================================")
;
        System.out.println("Sistem Antrian Royal Delish ");
        DoublelinkedList_23 dll = new DoublelinkedList_23();
        dllpesanan_23 dllpesan = new dllpesanan_23();
        boolean on = true;
        while (on) {
            System.out.println("Menu");
            System.out.println("1. Tambah Antrian ");
            System.out.println("2. Cetak Antrian ");
            System.out.println("3. Hapus Antrian ");
            System.out.println("4. Laporan Pengurutan pesanan by nama ");
            System.out.println("5.  Hitung total Pendapatan ");
            System.out.println("6. Keluar");
            System.out.println("Pilih  (1- 5): ");
            int choose = purnama.nextInt();
            switch (choose) {
                case 1:
                    System.out.println("-----------------------------------
-");

                    System.out.println("Masukan Data Pembeli ");
                    System.out.println("-----------------------------------
-");

                    System.out.println("Nomor Antrian : ");
                    System.out.println("1");
                    int nomorAntri = 1;
                    System.out.println("Nomor Customer : ");
                    System.out.println("Mamluatul");
                    String namaPembeli = "Mamluatul";
                    System.out.println("Nomor HP : ");
                    System.out.println("08224500000");
                    String noHp = "08224500000";

                    Pembeli_23 pembeli = new Pembeli_23(namaPembeli, noHp);
                    dll.addLast(nomorAntri, pembeli);

                    System.out.println("-----------------------------------
-");
                    System.out.println("Masukan Data Pembeli ");
                    System.out.println("-----------------------------------
-");

                    System.out.println("Nomor Antrian : ");
                    System.out.println("2");
                    nomorAntri = 2;
                    System.out.println("Nomor Customer : ");
                    System.out.println("Abyaz A.M");
                    namaPembeli = "Abyaz A.M";
                    System.out.println("Nomor HP : ");
                    System.out.println("08224511111");
                    noHp = "08224511111";
                    Pembeli_23 pembeli1 = new Pembeli_23(namaPembeli, noHp);
                    dll.addLast(nomorAntri, pembeli1);

                    System.out.println("-----------------------------------
-");
                    System.out.println("Masukan Data Pembeli ");
                    System.out.println("-----------------------------------
-");

                    System.out.println("Nomor Antrian : ");
                    System.out.println("3");
                    nomorAntri = 3;
                    System.out.println("Nomor Customer : ");
                    System.out.println("Yoshinoya");
                    namaPembeli = "Yoshinoya";
                    System.out.println("Nomor HP : ");
                    System.out.println("08224522222");
                    noHp = "08224522222";
                    Pembeli_23 pembeli2 = new Pembeli_23(namaPembeli, noHp);
                    dll.addLast(nomorAntri, pembeli2);

                    System.out.println("-----------------------------------
-");
                    System.out.println("Masukan Data Pembeli ");
                    System.out.println("-----------------------------------
-");

                    System.out.println("Nomor Antrian : ");
                    System.out.println("4");
                    nomorAntri = 4;
                    System.out.println("Nomor Customer : ");
                    System.out.println("Susi Susanti");
                    namaPembeli = "Susi Susanti";
                    System.out.println("Nomor HP : ");
                    System.out.println("081234456");
                    noHp = "081234456";
                    Pembeli_23 pembeli3 = new Pembeli_23(namaPembeli, noHp);
                    dll.addLast(nomorAntri, pembeli3);

                    break;
                case 2:
                    dll.print();
                    break;
                case 3:
                    try {
                        dll.removeFirst();
                    } catch (Exception e) {
                        System.out.println("Exception caught: " +
e.getMessage());
                    }
                    System.out.println("-----------------------------");
                    System.out.println("Transaksi input pesanan ");
                    System.out.println("-----------------------------");
                    System.out.println("Nomor Pesanan :");
                    System.out.println("1");
                    System.out.println("Pesanan : ");
                    System.out.println("Nasi Rendang");
                    System.out.println("Harga : ");
                    System.out.println("25000");

                    int kodePesanan = 1;
                    String pesanan = "Nasi Rendang";
                    int Harga = 25000;
                    dllpesan.addLast(kodePesanan, pesanan, Harga);

                    System.out.println("-----------------------------");
                    System.out.println("Transaksi input pesanan ");
                    System.out.println("-----------------------------");
                    System.out.println("Nomor Pesanan :");
                    System.out.println("2");
                    System.out.println("Pesanan : ");
                    System.out.println("Mie Goreng");
                    System.out.println("Harga : ");
                    System.out.println("15000");

                    kodePesanan = 2;
                    pesanan = "Mie Goreng";
                    Harga = 15000;
                    dllpesan.addLast(kodePesanan, pesanan, Harga);

                    System.out.println("-----------------------------");
                    System.out.println("Transaksi input pesanan ");
                    System.out.println("-----------------------------");
                    System.out.println("Nomor Pesanan :");
                    System.out.println("3");
                    System.out.println("Pesanan : ");
                    System.out.println("Soto Ayam");
                    System.out.println("Harga : ");
                    System.out.println("15000");

                    kodePesanan = 3;
                    pesanan = "Soto Ayam";
                    Harga = 15000;
                    dllpesan.addLast(kodePesanan, pesanan, Harga);

                    System.out.println("-----------------------------");
                    System.out.println("Transaksi input pesanan ");
                    System.out.println("-----------------------------");
                    System.out.println("Nomor Pesanan :");
                    System.out.println("4");
                    System.out.println("Pesanan : ");
                    System.out.println("Bulgogi");
                    System.out.println("Harga : ");
                    System.out.println("25000");

                    kodePesanan = 4;
                    pesanan = "Bulgogi";
                    Harga = 25000;
                    dllpesan.addLast(kodePesanan, pesanan, Harga);


                    break;
                case 4:
                    dllpesan.selectionSortDesc();
                    dllpesan.print();
                    break;
                case 5:
                    System.out.println("++++++++++++++++++++");
                    System.out.println("Total Pendapatan ");
                    System.out.println("++++++++++++++++++++");
                    dllpesan.hitungTotalPendapatan();
                    break;
                case 6:
                    on = false;
                    break;
                default:
                    System.out.println("Pilihan anda tidak valid");
                    break;
            }

        }

    }
}
```