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import java.io.*;
public class BusReservation {

    public static void main(String args[]) throws IOException {
        BufferedReader in = new BufferedReader(new InputStreamReader(System.in));

        String user,password,yn,search,again,choice;
        int to=0,y=1,z=0,end=0,r=1,flag=0,seat;
        int available[] = new int[6];
        int ticketI[][] = new int [100][3];
        String ticketS[][] = new String[100][3];
        double ticketD[][] = new double [100][3];
        double pay[] = new double[20];
        double change[] = new double[20];

        for(int i=1;i<4;){
            System.out.print("Enter Username: ");
            user = in.readLine();
            System.out.print("Enter Password: ");
            password = in.readLine();

            //"available[]" is the SEAT AVAILABLE//
            //store 20 seats every destination [1-5]//
            for(int o=1; o<=5; o++){
                available[o]=20;
            }

            //if user and password are correct proceed to MAIN MENU//
            if(user.equals("12345") && password.equals("12345")){

                for(int x=1; x==1;){
                    //the MAIN MENU//

                    System.out.println("*****");
                    System.out.println("    BUS RESERVATION AND TICKETING SYSTEM
");

                    System.out.println("*****");
                    System.out.println("*    [1] Destination
");
                    System.out.println("*    [2] Passengers
");
                    System.out.println("*    [3] Billing
");
                    System.out.println("*    [4] View
");
                    System.out.println("*    [5] Exit
");

                    System.out.println("*****");
                    System.out.println("*****\n
");

                    for(x=1; x==1;){
                        System.out.print("ENTER CHOICE: ");
                        choice=in.readLine();

                        //if CHOICE is "1" display the DESTINATION//
                        if (choice.equals("1")){

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//the DESTINATION DETAILS//
//display the "Destination", every destination
"Fare", and the "Seat" available//

    System.out.println("*****");
    SEAT      System.out.println("      DESTINATION | FARE |
    ");

    System.out.println("*****");
    System.out.println("* 1.)Pune | 800 Rs |
"+available[1]+" *");
    System.out.println("* 2.)Mumbai | 600 Rs |
"+available[2]+" *");
    System.out.println("* 3.)Aurangabad | 400 Rs |
"+available[3]+" *");
    System.out.println("* 4.)Nashik | 300 Rs |
"+available[4]+" *");
    System.out.println("* 5.)Nagpur | 900 Rs |
"+available[5]+" *");

    System.out.println("*****");

    System.out.println("*****\n");
    System.out.println("PWD, STUDENT, & SENIOR CITIZEN
with 20% DISCOUNT!!!\n");
    x=0;
    }

    //if CHOICE is "2" proceed to Ticket Booking//
    else if (choice.equals("2")){
        int print=1;

        //display first the Destination Details//

        System.out.println("*****");
        SEAT      System.out.println("      DESTINATION | FARE |
        ");

        System.out.println("*****");
        System.out.println("* 1.)Pune | 800 Rs |
"+available[1]+" *");
        System.out.println("* 2.)Mumbai | 600 Rs |
"+available[2]+" *");
        System.out.println("* 3.)Aurangabad | 400 Rs |
"+available[3]+" *");
        System.out.println("* 4.)Nashik | 300 Rs |
"+available[4]+" *");
        System.out.println("* 5.)Nagpur | 900 Rs |
"+available[5]+" *");

        System.out.println("*****");

        System.out.println("*****\n");
        System.out.println("PWD, STUDENT, & SENIOR CITIZEN
with 20% DISCOUNT!!!\n");

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if((available[1]==0)&&(available[2]==0)&&(available[3]==0)&&(available[4]==0)&&(available[5]==0)){
    System.out.println("Sorry, We don't have
available seats for all Destination!");
    x=0;

}

//inputing of Passenger's Name//
else{
for(x=1; x==1;){
    System.out.print("\nENTER PASSENGER'S NAME: ");
    ticketS[z][0] = in.readLine();

    x=0;

    //if Passenger's Name already used,
display error and go back to Inputing//
    for(int l=0; l<z; l++){
        if(ticketS[l]
[0].equalsIgnoreCase(ticketS[z][0])){
            System.out.println("Sorry,
Passenger's name have already used!");
            x=1;
        }
    }
}

//inputing of Destination//
//integers Only [1-5]//
for(x=1; x==1;){
    System.out.print("ENTER DESTINATION [number]:
");

    to = Integer.parseInt(in.readLine());

    //if Inputed integers are "<1" or ">5", display
error and go back to Inputing//
    if(to<1 || to>5){
        System.out.println("Invalid Input!");
        x=1;
    }
    //if available seat is equal to "Zero", display
error and go back to Inputing//
    for(int d=1; d<=5; d++){
        if(to==d){
            if(available[to]==0){
                System.out.println("Sorry, We
don't have available seat!");
                x=1;
            }
            x=0;
        }
    }
}

//convert the integer to string//

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String dest[] = { " ", "Pune", "Mumbai",
"Aurangabad", "Nashik", "Nagpur"};
double fare[] = { 0,800,600,400,300,900};

//converted integer to string, transfer to storage
array//
ticketS[z][1] = dest[to];
ticketD[z][0] = fare[to];

//inputing for Number of Passenger's//
for(x=1; x==1;){
System.out.print("HOW MANY PASSENGERS ARE YOU?: ");
ticketI[z][0] = Integer.parseInt(in.readLine());

//subtract the available seat by the the number
inputed//

for(int p=1; p<=5; p++){
    if(to==p){
        print=1;

        flag=1;
        available[to] = available[to]-

ticketI[z][0];

//if the subtracted available seat
is "<0", display error//
//add the inputed number to the
subtracted seat, to back the original seat//
//display the available seat and
back to the inputing//
if(available[to]<0){
    System.out.print("Sorry, We
don't have seat available for " +ticketI[z][0] +" person\n");
    available[to] = available[to]
+ticketI[z][0];
    System.out.print("We only
have " +available[to] +" seat available\n");

    x=1;
    print=0;
}
else{
    x=0;
}
}
}

//inputing for Number of Discounted Passenger's//
for(x=1;x==1;){
    System.out.print("HOW MANY PASSENGERS HAVE
DISCOUNT?: ");
    ticketI[z][1] =
Integer.parseInt(in.readLine());

    if(ticketI[z][1]>ticketI[z][0]){

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        System.out.println("Invalid Input!");
        System.out.println("No. of Passengers are
only " +ticketI[z][0] +"!");
        x=1;
        }
        else{
            break;
        }
    }
    if(flag==1)
        seat=20-(available[to]+ticketI[z][0]);
    else
        seat=20-available[to];
    int j=0;
    int n=ticketI[z][0];
    int[] your=new int [n];
    while(j<n)
    {
        your[j]=++seat;
        j++;
    }
    //print out of passengers details....
    if(print==1){
        System.out.println("\
n*****");
        System.out.println("          PASSENGER'S DETAILS
");
        System.out.println("*****");
        System.out.println("PASSENGER'S NAME: " +
ticketS[z][0]);
        System.out.println("PASSENGER'S DESTINATION : "
+ ticketS[z][1]);
        System.out.println("FARE PRICE: Rs " +
ticketD[z][0]);
        System.out.println("NO. OF PASSENGERS: " +
ticketI[z][0]);
        System.out.println("NO. OF PASSENGERS WITH
DISCOUNT: " + ticketI[z][1]);
        System.out.println("Seat NO. : ");
        for(j=0;j<n;j++)
        {
            System.out.println(your[j] + "
");
        }

        System.out.println("*****");
        System.out.println("*****\n");
        ticketS[z][2]="0";
        double discount=(ticketD[z][0]-(ticketD[z]
[0]*0.2))*ticketI[z][1];
        ticketD[z][2]= ((ticketI[z][0]-ticketI[z]
[1])*ticketD[z][0])+discount;
        x=0;
    }
    z++;
}

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[illegible]

[illegible]

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        System.out.println("*****");
        System.out.println("
PASSENGER'S DETAILS          ");
        System.out.println("*****");
        System.out.println("PASSENGER'S
NAME: " + ticketS[x][0]);
        System.out.println("PASSENGER'S
DESTINATION : " + ticketS[x][1]);
        System.out.println("FARE PRICE: Rs"
+ ticketD[x][0]);
        System.out.println("NO. OF
PASSENGERS: " + ticketI[x][0]);
        System.out.println("NO. OF
PASSENGERS WITH DISCOUNT: " + ticketI[x][1]);
        System.out.println("TOTAL FARE
PRICE: Rs " + ticketD[x][2]);
        if(ticketS[x][2].equals("x")){
            System.out.println("PAY: Rs "
+pay[x]);
            System.out.println("CHANGE:
Rs " +change[x]);
            System.out.println("STATUS:
PAID");
        }
        else{
            System.out.println("STATUS:
NOT PAID");
        }

        System.out.println("*****");
        System.out.println("*****");
        s=0;
        sx=4;
    }

    if (s==1){
        System.out.println("Passenger's
Name not found!");
        sx++;
    }

}
}

else if(choice.equals("5")){
    end=1;
    x=0;
    System.out.println("Thank You!");
}

else{
    System.out.println("Invalid Input!");
    x=1;
}

}

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        for(y=1; y==1;){
            if(end==1){
                break;
            }
            System.out.print("Do you want another transaction? [Y/N]:
");
                yn = in.readLine();

                if (yn.equalsIgnoreCase("y")){
                    x=1;
                    y=0;
                }
                else if (yn.equalsIgnoreCase("n")){
                    System.out.println("\nThank You!!!");
                    break;
                }
                else{
                    System.out.println("Invalid Input!!!");
                    y=1;
                }
            }
        }
        i=4;
    }
    else{
        System.out.println("\nInvalid user or password!\n");
        i++;
    }
}

}

}

```