## Problem statement:

Booking a train ticket with name of train and name ,ages of passengers and used to display the remaining count of seats ,that is different from the other train which allow the names of passengers that are used in other train using java

```
//Program that allows Duplicates
import java.util.ArrayList;
import java.util.*;
class Train
{
private String tname;
//private int aseats=50;
private int as;
public String pname[]=new String[100];
public int page[]=new int[100];
int c=1,nop;
Train()
{
}
Train(String[] pname,int[] page)
{
  this.pname=pname;
  this.page=page;
}
public void setAs(int as)
{
  this.as=as;
}
public int getAs()
{
   return as;
```

```
}
void express()
{
     System.out.println("-----");
     System.out.println("Ticket(s) booked successfully!");
     System.out.println("Seats remaining:"+(this.as));
}
}
class Main
{
public static void main(String[] args)
{
  Scanner sc=new Scanner(System.in);
  int i=1,count=1,ch,j=1,count1=0;
  String tname;
  String pname[]=new String[100];
  String x[]=new String[100];
  int page[]=new int[100];
  int nop,as=50,as1=50;
  HashMap<String,Integer> h=new HashMap<String ,Integer>();
  ArrayList<String> name = new ArrayList<String>();
  ArrayList<String> na=new ArrayList<String>();
  System.out.println("*******************************);
       System.out.println("\t\tWelcome to Railway Ticket Reservation Console Application");
       System.out.println("*****************************);
  do{
   System.out.println("Please choose the option");
   System.out.println("1. Book the Ticket \n2. Exit");
   ch=sc.nextInt();
   switch(ch)
```

```
case 1:
  System.out.println("Enter the Train name:");
  tname=sc.next();
  System.out.println("Enter the number of tickets you want to book:");
  nop=sc.nextInt();
  if(h.containsKey(tname))
  {
      int x1=h.get(tname);
                    h.put(tname,x1-nop);
                    System.out.println("Passenger Details:");
     for(i=1;i<=nop;i++)
    {
    System.out.println("Passenger "+i+" details ");
    pname[i]=sc.next();
   if (name.contains(pname[i]))
    System.out.println("Name already exists!");
    i=i-1;
    }
    else
    {
    sc.nextLine();
    page[i]=sc.nextInt();
    Train t1=new Train(pname,page);
    name.add(pname[i]);
    }
    }
                    count=50-x1 +1;
 }
```

{

```
else
{
  h.put(tname,50-nop);
  for(i=1;i<=nop;i++)
  {
  System.out.println("Passenger "+i+" details ");
  pname[i]=sc.next();
 if (na.contains(pname[i]))
  {
  System.out.println("Name already exists!");
  i=i-1;
  }
  else
  {
  sc.nextLine();
  page[i]=sc.nextInt();
  Train t1=new Train(pname,page);
  name.add(pname[i]);
  na.add(pname[i]);
  }
  count=1;
  }
  na.clear();
}
```

Train t=new Train();

```
System.out.println("******************");
   System.out.println("
                                 Your Ticket Details
                                                             ");
   System.out.println("****************************);
   System.out.println("
                                 Train name:"+tname+"
                                                            ");
   System.out.println("-----");
   System.out.println("
                                 Passenger Details
                                                             ");
   System.out.println("-----");
   System.out.println("passenger name\t\t passenger age\t\tpassenger seat");
   for(i=1;i<=nop;i++)</pre>
   {
   System.out.print(pname[i]+"\t\t");
   System.out.print(page[i]+"\t\t");
   System.out.print(count+"\t\t");
     count++;
   System.out.println();
   }
    as=50;
   as=as-(count-1);
   t.setAs(as);
   t.express();
    break;
   case 2:System.out.println("Thank you for using the Ticket Reservation System. Goodbye!");
   break;
   default: System.out.println("Invalid input");
}
}while(ch!=2);
```

}

}

## Output:

```
Welcome to Railway Ticket Reservation Console Application

Please choose the option
1. Book the Ticket

Enter the Train name:

SET

Your Ticket Details

Train name:exp

Fassenger Details

Passenger age passenger seat

SI

20

Ticket (a) booked successfully!

Seats remaining:#8

Please choose the option
1. Book the Tricket
2. Sett

Enter the Trin name:

Exp

Rater the number of tickets you want to book:

Exp

Rater the number of tickets you want to book:

Exp

Rater the number of tickets you want to book:

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Rater the number of tickets you want to book:

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```
EXPLANCE THE Number of tickets you want to book:

2 Passenger Details:
Passenger 1 details
sri
Name already exists!
Passenger 1 details
Tain name:exp

Passenger Details

Train name:exp

Passenger Details

Train name:exp

Passenger Details

Train name:exp

Passenger Details

Train name:exp

Passenger name passenger age passenger seat tanu 20 3
manu 20 4
Ticket(s) booked successfully!
Seats remaining:46
Please choose the option
1. Book the Ticket
2. Exit
Enter the Train name:
ord
Enter the Train name:
ord
Enter the number of tickets you want to book:
2 Passenger 1 details
sri
sri
sri
1 details
sri
```

```
Enter the number of tickets you want to book:

2 Passenger Petails:
Passenger 1 details
sri
Name already exists!
Fassenger 1 details
tanu
20
Fassenger 2 details
manu
20

Your Ticket Details

Train name:exp

Passenger name
passenger petails

passenger name
20
3
manu
20
Ticket(s) booked successfully!
Seats remaining:46
Please choose the option
1. Book the Ticket
2. Exit
1
Enter the Train name:
ord
Enter the number of tickets you want to book:
2
Passenger 1 details

Fassenger 1 details

Fassenger 1 details

Fassenger betails

Fassenger seat

Annu
20
3
Bassenger seat

Fassenger seat

Fas
```