```
//Railway Reservation Ticket Booking System
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++)</pre>
       {
      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\t");
System.out.print(page[i]+"\t\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
2. Exit
1
Enter the Train name:
express
```

Enter the number of	tickets yo	ou want to book:		
2				
Passenger 1 details				
sravya				
18				
Passenger 2 details				
sudha				
20				
******	*****	*******	**********	******
Your Ticket Details				
******	*****	******	******	******
Train	name:ex	press		
Passei	nger Deta	nils		
passenger name		passenger age	passenge	er seat
sravya	18		1	
sudha	20		2	
Ticket(s) booked suc	cessfully!			
Seats remaining:48				
Please choose the op	otion			
1. Book the Ticket				
2. Exit				
2				
Thank you for using	the Ticket	t Reservation Syste	m. Goodbye!	