



**A Project Report On**  
***"RAILWAY TICKET RESERVATION"***

**Submitted By**  
**SHAHBAN ALI**  
**Class: XII Science**

**Under the Guidance of**  
**Mr. M.K Singh**  
**PGT (Computer Science)**

**Department of Computer Science**  
**Kendriya Vidyalaya Khagaria.**



## Department of Computer Science Kendriya Vidyalaya Khagaria.

### CERTIFICATE

This is to certify that **SHAHBAN ALI** of **Class XII Science** has prepared the report on the Project entitled “**Railway Ticket Reservation**”. The report is the result of his efforts & endeavors. The report is found worthy of acceptance as final project report for the subject **Computer Science** of **Class XII**. He has prepared the report under my guidance.

(Mr. M.K Singh)  
PGT (Computer Science)  
Department of Computer Science  
Kendriya Vidyalaya Khagaria.



**Department of Computer Science  
Kendriya Vidyalaya Khagaria**

**CERTIFICATE**

The project report entitled

**“Railway Ticket Reservation”**,

Submitted by **SHAHBAN ALI** of Class XII Science for the C.B.S.E Senior Secondary Examination class XII of **Computer Science** at Kendriya Vidyalaya Khagaria has been examined.

**SIGNATURE OF EXAMINER**

## DECLARATION

I hereby declare that the project work entitled "**Railway Ticket Reservation**", submitted to Department of **Computer Science**, Kendriya Vidyalaya Khagaria is **prepared** by **me**. All the **coding** are result of my **personal efforts**.

**SHAHBAN ALI**

**Class XII Science**

# ACKNOWLEDGEMENT

I would like to express a deep sense of thanks & gratitude to my **project guide Mr. M.K Singh** Sir for guiding me immensely through the course of the project. He always evinced keen interest in my work. His constructive advice & **constant motivation** have been responsible for the **successful** completion of this project.

My sincere thanks goes to **Shri Yeshdeep Rohilla**, Our **principal** sir, for his co-ordination in extending every **possible support** for the completion of this project.

I also thanks to my **parents** for their **motivation & support**. I must thanks to my **classmates** for their timely help & support for **compilation** of this **project**.

**Last but not the least; I would like to thank all those who had helped directly or indirectly towards the completion of this project.**

SHAHBAN ALI

Class: XII Science

## CONTENTS

---

1. HEADER FILES USED. ....
2. FILES GENERATED. ....
3. WORKING DESCRIPTION. ....
4. CODING. ....
5. OUTPUT SCREENS. ....
6. CONCLUSION. ....
7. BIBLIOGRAPHY. ....

## HEADER FILES USED

---

1. **FSTREAM.H** – for file handling, cin and cout
2. **PROCESS.H** – for exit() function
3. **CONIO.H** – for clrscr() and  
getch() function
4. **STDIO.H** – for standard I/O operations
5. **STRING.H** – for string handling
6. **MATH.H** – for doing mathematical operations

## **FILES GENERATED**

---

DATA FILES

TRAIN.DAT

PROGRAM FILE

RAILWAY TICKET RESERVATION.CPP

OBJECT FILE

TRAIN.OBJ

EXECUTION FILE

TRAIN.EXE



## WORKING DESCRIPTION

---

This program is **designed** to keep the **Railway record**.

This program consists of **FIVE** options as follows

1. TO **ADD** NEW RAILWAY STATION
2. TO **BOOK** TICKET
3. TO **CHANGE** PER KM RATES
4. TO **MODIFY** DATABASE OF TRAIN
5. TO **EXIT**

# CODING

---

```
#include<fstream.h>
#include<conio.h>
#include<stdio.h>
#include<math.h>
#include<string.h>
#include<process.h>

char from[30],to[30];
void detail()
{
    cout<<"From"<<endl;
    gets(to);
    cout<<"To"<<endl;
    gets(from);
}

class railways
{
    char station[30];
    unsigned int
    distance; float fare;
public:
    void ad_data()
    {

        cout<<"Enter Railway Station
        name"<<endl; gets(station);
        cout<<"enter its distance from
        Jammu Tawi"<<endl; cin>>distance;

    }
    void amount(int a,int b,int c)
```

```

{
cout<<"total distance="<<fabs((a-b))<<"\ncharges
per/km="<<c; fare=fabs((a-b))*c;

cout<<"\nticket cost ="<<fare;
}
unsigned int dist()
{
return distance;
}
char* station_v()
{
return station ;
}
void modify()
{
cout<<"\nEnter new railway station\n";
gets(station);
cout<<"\nEnter its distance from
jammu tawi\n"; cin>>distance;
}
}tr;

void main()
{
clrscr();
unsigned int per_km=5,choice,
d1=0,d2=0,i; char station_searched[30];
while(1)

{
clrscr();
cout<<"\n\t\t\tWELCOME TO INDIAN RAILWAYS\n";

for(i=0;i<80;i++)
{
cout<<"-";

```

```
}
```

```
cout<<"Enter your choice \n\t1:->Add new railway  
station\n\t2:->Book ticket"<<endl;
```

```
cout<<"\t3:->Change per km rates\n\t4:->modify database  
of train\n\t5:->exit\n";
```

```
for(i=0;i<80;i++)
```

```
{
```

```
cout<<"-";
```

```
}
```

```
cin>>choice;
```

```
while(choice==1)
```

```
{
```

```
ofstream
```

```
of1("train.dat",ios::binary|ios::app);
```

```
tr.ad_data();
```

```
of1.write((char*)&tr,sizeof(tr));
```

```
of1.close();
```

```
break;
```

```
}
```

```
while(choice==2)
```

```
{
```

```
ifstream
```

```
of1("train.dat",ios::binary); detail();
```

```
while(of1)
```

```
{
```

```
of1.read((char*)&tr,sizeof(tr));
```

```
if(0==strcmp(from,tr.station_v0))
```

```
{
```

```
d1=tr.dist();
```

```
}
```

```

if(0==strcmp(to,tr.station_v0))
{
d2=tr.dist0;
}
if(d1 && d2)

{
tr.amount(d1,d2,per_km);
getch();

break;
}

if(of1.eof0)

{
cout<<"\nstations not found check your spelling\n";
getch();
}
}
of1.close0;
break;
}
if(choice==3)
{
cout<<"Enter new per km
rates"; cin>>per_km;
}
if(choice==4)
{
cout<<"enter the railway station to be changed";

gets(station_searched);

ifstream f1 ("train.dat",ios::binary);

while(f1 )

```

```

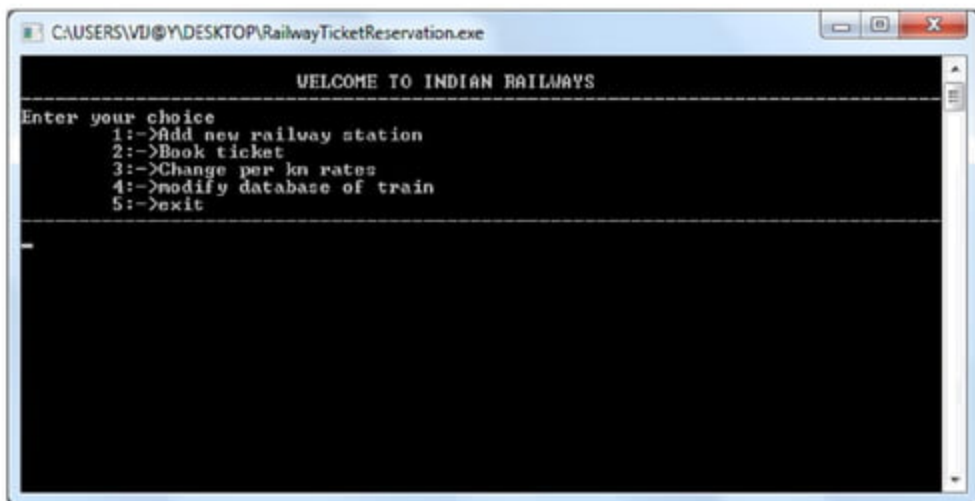
{
f1.read((char*)&tr,sizeof(tr));
long pos=f1.tellg();
if(0==strcmp(station_searched,tr.station_v0))
{
f1.seekg((-1*sizeof(tr),ios::cur));
tr.modify();
f1.close();
ofstream f1("train.dat",ios::app);
f1.seekp(pos,ios::beg);
f1.write((char*)&tr,sizeof(tr));
cout<<"record modified";
f1.close();
break;
}
else if(f1.eof())
{
cout<<"\nStation not
found\n"; getch();
}
}

```

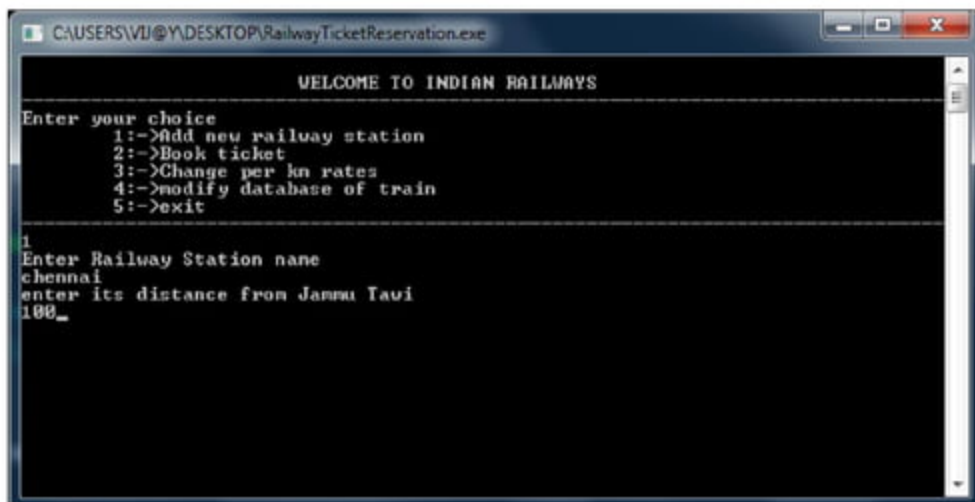
```
}  
  
}  
  
}  
  
if(choice==5)  
{  
cout<<"\nTHANK YOU FOR  
USING INDIAN RAILWAYS ";  
getch();  
exit(0);  
}  
  
if(choice!=1&&choice!=2&&choice!=3&&choice!=4&&choice!=5)  
{  
  
cout<<"entered wrong choice  
PROGRAM IS ABORTING!!!!!!"; getch();  
exit(0);  
  
}  
  
}  
  
getch();  
}
```

# OUTPUT

## 1. WELCOME SCREEN

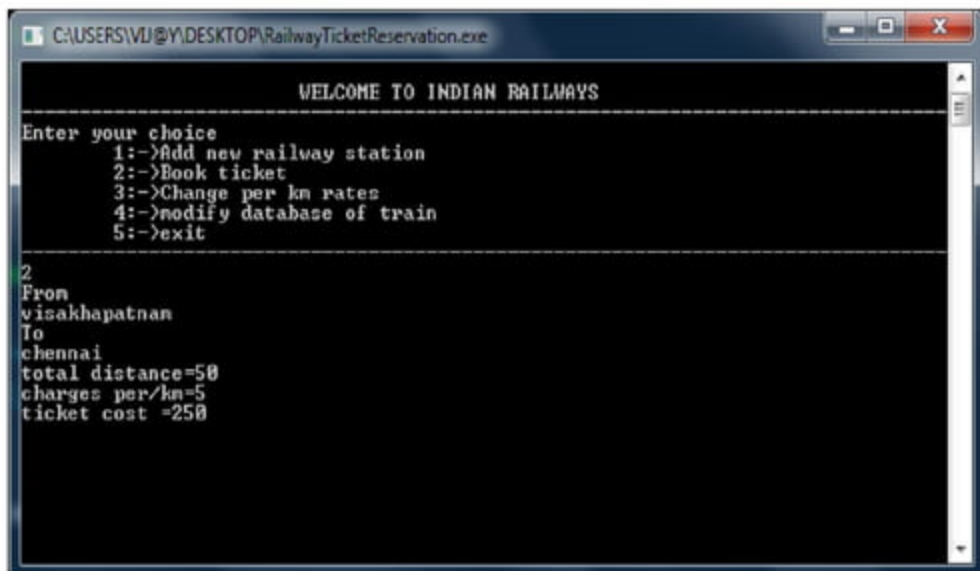


## 2. ADD NEW RAILWAY STATION

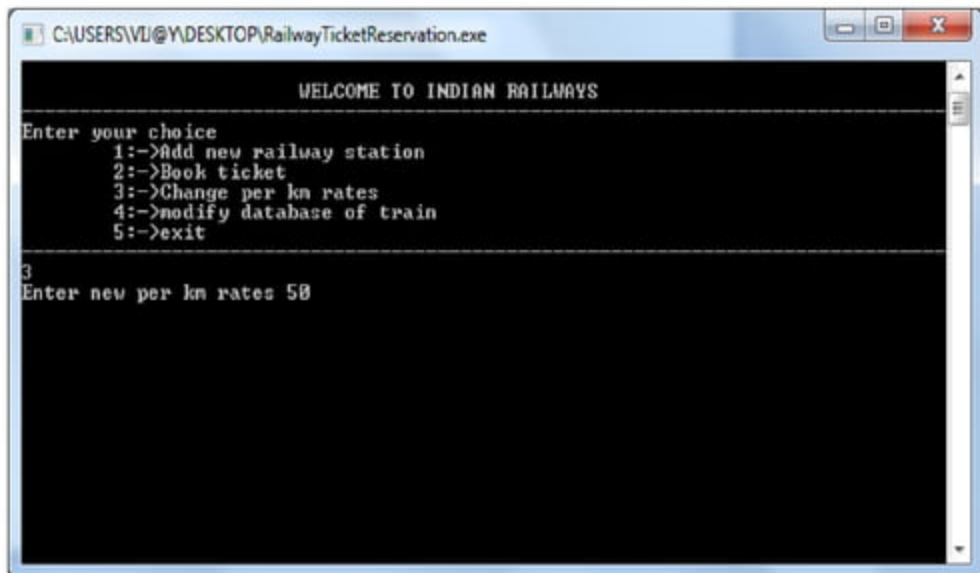




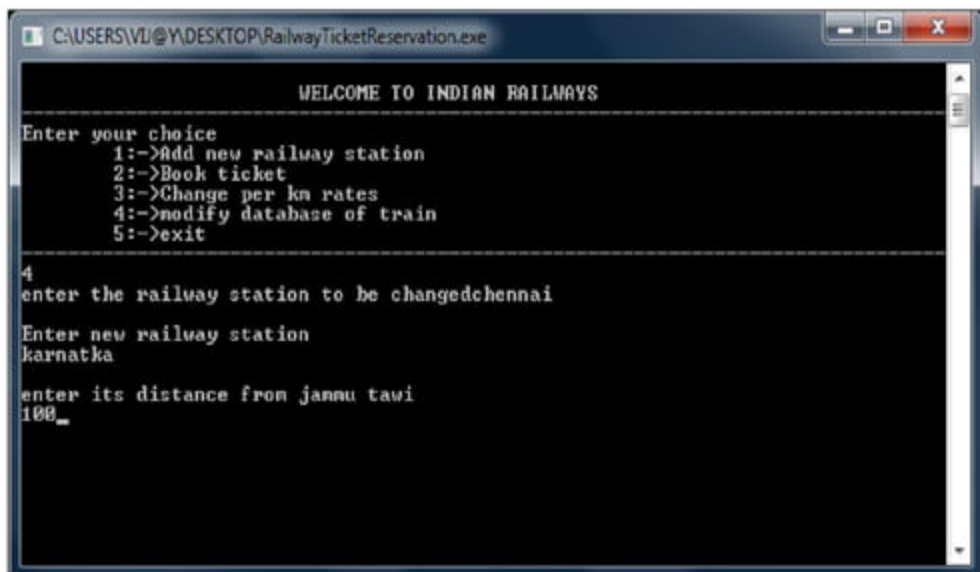
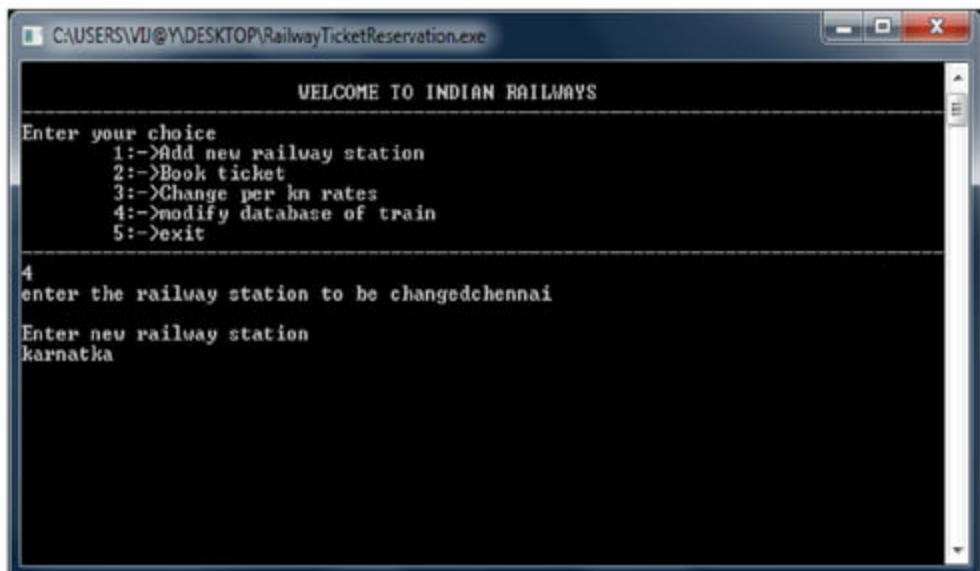
### 3. TO BOOK TICKET



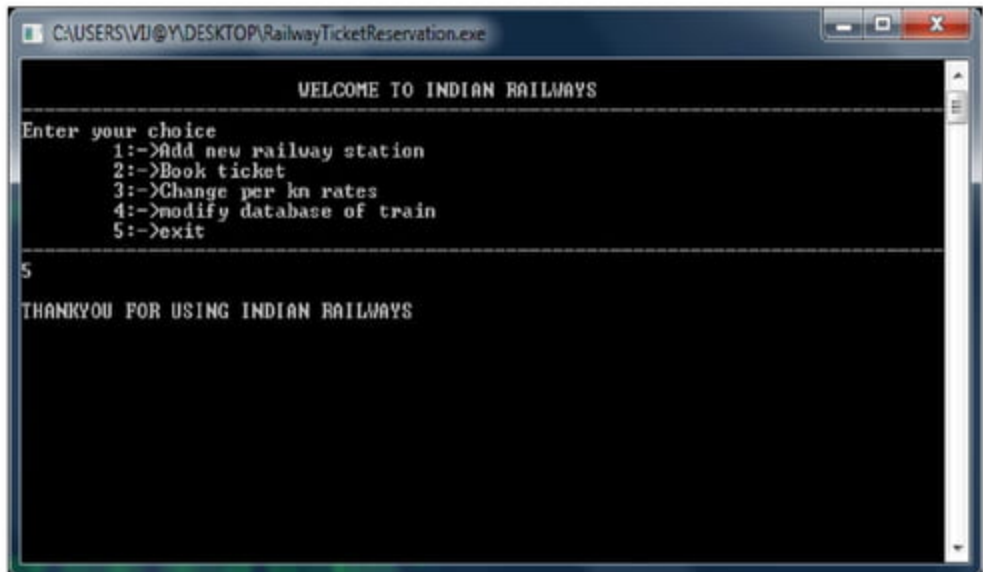
### 4. TO CHANGE PER KM RATES



## 5. TO MODIFY DATABASE OF TRAIN



## 6. TO EXIT



## BIBLIOGRAPHY

---

- 1 <http://www.google.com>
- 2 <http://en.wikipedia.org>
- 3 Computer Science with C++ by Sumita Arora
- 4 Object Oriented Programming by Robert Lafore
- 5 [www.bOtskOOL.com](http://www.bOtskOOL.com)