

- ```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ head -n 5 VTCBB.txt
101,Rajesh Kumar,Delhi,Computer Science,25000
102,Priya Sharma,Mumbai,Electrical Engineering,22000
103,Vikram Singh,Bangalore,Mechanical Engineering,23000
104,Ananya Gupta,Chennai,Information Technology,24000
105,Amit Patel,Kolkata,Civil Engineering,21000
```

- ```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ sed -n '8,16p' VTCBB.txt
108,Kavita Sharma,Mumbai,Mechanical Engineering,23000
109,Deepak Kumar,Bangalore,Information Technology,24000
110,Anjali Verma,Kolkata,Civil Engineering,21000
111,Aditya Choudhary,Hyderabad,Computer Science,25000
112,Manisha Singh,Delhi,Electrical Engineering,22000
113,Vishal Gupta,Mumbai,Mechanical Engineering,23000
114,Swati Patel,Bangalore,Electronics and Communication,24000
115,Rajat Sharma,Kolkata,Information Technology,21000
116,Mohit Gupta,Delhi,Civil Engineering,22000
```

- ```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ ls -a
.  ..  VTCBB.txt  student.txt
```

- ```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ cut -c 2 VTCBB.txt
0
0
0
0
0
0
0
0
0
0
1
1
1
1
1
1
1
1
1
1
1
1
1
1
2
2
2
2
2
2
2
2
```

5. Display the character from 8 Bytes.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ cut -c 8- VTCBB.txt
esh Kumar,Delhi,Computer Science,25000
ya Sharma,Mumbai,Electrical Engineering,22000
ram Singh,Bangalore,Mechanical Engineering,23000
nya Gupta,Chennai,Information Technology,24000
t Patel,Kolkata,Civil Engineering,21000
ha Verma,Hyderabad,Computer Science,25000
ul Singh,Delhi,Electronics and Communication,22000
ita Sharma,Mumbai,Mechanical Engineering,23000
pak Kumar,Bangalore,Information Technology,24000
ali Verma,Kolkata,Civil Engineering,21000
tya Choudhary,Hyderabad,Computer Science,25000
isha Singh,Delhi,Electrical Engineering,22000
hal Gupta,Mumbai,Mechanical Engineering,23000
ti Patel,Bangalore,Electronics and Communication,24000
at Sharma,Kolkata,Information Technology,21000
it Gupta,Delhi,Civil Engineering,22000
uti Kapoor,Mumbai,Computer Science,25000
in Yadav,Bangalore,Electrical Engineering,23000
an Kumari,Chennai,Information Technology,24000
ay Verma,Kolkata,Mechanical Engineering,21000
ali Singh,Hyderabad,Civil Engineering,22000
it Sharma,Delhi,Electronics and Communication,25000
wini Patel,Mumbai,Computer Science,23000
kash Kumar,Bangalore,Mechanical Engineering,24000
a Gupta,Kolkata,Electrical Engineering,21000
```

6. Skip first 5 character of each line and print it.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ cut -c 6- VTCBB.txt
ajesh Kumar,Delhi,Computer Science,25000
riya Sharma,Mumbai,Electrical Engineering,22000
ikram Singh,Bangalore,Mechanical Engineering,23000
nanya Gupta,Chennai,Information Technology,24000
mit Patel,Kolkata,Civil Engineering,21000
neha Verma,Hyderabad,Computer Science,25000
ahul Singh,Delhi,Electronics and Communication,22000
avita Sharma,Mumbai,Mechanical Engineering,23000
eepak Kumar,Bangalore,Information Technology,24000
njali Verma,Kolkata,Civil Engineering,21000
ditya Choudhary,Hyderabad,Computer Science,25000
anisha Singh,Delhi,Electrical Engineering,22000
ishal Gupta,Mumbai,Mechanical Engineering,23000
wati Patel,Bangalore,Electronics and Communication,24000
ajat Sharma,Kolkata,Information Technology,21000
ohit Gupta,Delhi,Civil Engineering,22000
hruti Kapoor,Mumbai,Computer Science,25000
itin Yadav,Bangalore,Electrical Engineering,23000
iran Kumari,Chennai,Information Technology,24000
ijay Verma,Kolkata,Mechanical Engineering,21000
njali Singh,Hyderabad,Civil Engineering,22000
ohit Sharma,Delhi,Electronics and Communication,25000
shwini Patel,Mumbai,Computer Science,23000
rakash Kumar,Bangalore,Mechanical Engineering,24000
eha Gupta,Kolkata,Electrical Engineering,21000
```

7. Print only unique record of file "student.txt"

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ sort -u student.txt
101,Rajesh Kumar,Delhi,Computer Science,25000
102,Priya Sharma,Mumbai,Electrical Engineering,22000
103,Vikram Singh,Bangalore,Mechanical Engineering,23000
104,Ananya Gupta,Chennai,Information Technology,24000
105,Amit Patel,Kolkata,Civil Engineering,21000
106,Sneha Verma,Hyderabad,Computer Science,25000
107,Rahul Singh,Delhi,Electronics and Communication,22000
108,Kavita Sharma,Mumbai,Mechanical Engineering,23000
109,Deepak Kumar,Bangalore,Information Technology,24000
110,Anjali Verma,Kolkata,Civil Engineering,21000
111,Aditya Choudhary,Hyderabad,Computer Science,25000
112,Manisha Singh,Delhi,Electrical Engineering,22000
113,Vishal Gupta,Mumbai,Mechanical Engineering,23000
114,Swati Patel,Bangalore,Electronics and Communication,24000
115,Rajat Sharma,Kolkata,Information Technology,21000
116,Mohit Gupta,Delhi,Civil Engineering,22000
117,Shruti Kapoor,Mumbai,Computer Science,25000
118,Nitin Yadav,Bangalore,Electrical Engineering,23000
119,Kiran Kumari,Chennai,Information Technology,24000
119,Kiran Kumari,Chennai,Information Technology,24000
120,Vijay Verma,Kolkata,Mechanical Engineering,21000
121,Anjali Singh,Hyderabad,Civil Engineering,22000
122,Rohit Sharma,Delhi,Electronics and Communication,25000
123,Ashwini Patel,Mumbai,Computer Science,23000
124,Prakash Kumar,Bangalore,Mechanical Engineering,24000
125,Neha Gupta,Kolkata,Electrical Engineering,21000
```

8. You have "stud.csv" file which contain sid,sname,city,dept. print only student name.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ cut -d ',' -f 2 stud.csv
Rajesh Kumar
Priya Sharma
Vikram Singh
Ananya Gupta
Amit Patel
Sneha Verma
Rahul Singh
Kavita Sharma
Deepak Kumar
Anjali Verma
Aditya Choudhary
Manisha Singh
Vishal Gupta
Swati Patel
Rajat Sharma
```

9. You have "stud.csv" file which contain sid,sname,city,dept. print only student name and dept.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ cut -d ',' -f 2,4 stud.csv
Rajesh Kumar,Computer Science
Priya Sharma,Electrical Engineering
Vikram Singh,Mechanical Engineering
Ananya Gupta,Information Technology
Amit Patel,Civil Engineering
Sneha Verma,Computer Science
Rahul Singh,Electronics and Communication
Kavita Sharma,Mechanical Engineering
Deepak Kumar,Information Technology
Anjali Verma,Civil Engineering
Aditya Choudhary,Computer Science
Manisha Singh,Electrical Engineering
Vishal Gupta,Mechanical Engineering
Swati Patel,Electronics and Communication
Rajat Sharma,Information Technology
```

10. You have "stud.csv" file which contain sid,sname,city,dept,fee. print records in ascending order of student name.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ sort -t ',' -k 2 stud.csv
111,Aditya Choudhary,Hyderabad,Computer Science
105,Amit Patel,Kolkata,Civil Engineering
104,Ananya Gupta,Chennai,Information Technology
110,Anjali Verma,Kolkata,Civil Engineering
109,Deepak Kumar,Bangalore,Information Technology
108,Kavita Sharma,Mumbai,Mechanical Engineering
112,Manisha Singh,Delhi,Electrical Engineering
102,Priya Sharma,Mumbai,Electrical Engineering
107,Rahul Singh,Delhi,Electronics and Communication
115,Rajat Sharma,Kolkata,Information Technology
101,Rajesh Kumar,Delhi,Computer Science
106,Sneha Verma,Hyderabad,Computer Science
114,Swati Patel,Bangalore,Electronics and Communication
103,Vikram Singh,Bangalore,Mechanical Engineering
113,Vishal Gupta,Mumbai,Mechanical Engineering
```

11. Display count of each line in "Stud.csv". Means how many time records repeat in file.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ sort stud.csv | uniq -c
  1 101,Rajesh Kumar,Delhi,Computer Science
  1 102,Priya Sharma,Mumbai,Electrical Engineering
  1 103,Vikram Singh,Bangalore,Mechanical Engineering
  1 104,Ananya Gupta,Chennai,Information Technology
  1 105,Amit Patel,Kolkata,Civil Engineering
  1 106,Sneha Verma,Hyderabad,Computer Science
  1 107,Rahul Singh,Delhi,Electronics and Communication
  1 108,Kavita Sharma,Mumbai,Mechanical Engineering
  1 109,Deepak Kumar,Bangalore,Information Technology
  1 110,Anjali Verma,Kolkata,Civil Engineering
  1 111,Aditya Choudhary,Hyderabad,Computer Science
  1 112,Manisha Singh,Delhi,Electrical Engineering
  1 113,Vishal Gupta,Mumbai,Mechanical Engineering
  1 114,Swati Patel,Bangalore,Electronics and Communication
  1 115,Rajat Sharma,Kolkata,Information Technology
```

12. Convert "into.txt" file into uppercase.

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ tr '[:lower:]' '[:upper:]' < into.txt
I AM LAXMAN, A DEDICATED SOFTWARE DEVELOPER.
PROFICIENT IN PYTHON, JAVA, AND JAVASCRIPT.
SKILLED IN CRAFTING USER-FRIENDLY APPLICATIONS.
EXPERIENCED IN BOTH FRONT-END AND BACK-END DEVELOPMENT.
WELL-VERSED IN SOFTWARE ARCHITECTURE AND DESIGN PRINCIPLES.
COMMITTED TO STAYING UPDATED WITH INDUSTRY TRENDS.
COLLABORATIVE TEAM PLAYER ON DIVERSE PROJECTS.
PROBLEM-SOLVING AND ATTENTION TO DETAIL ARE MY STRENGTHS.
ENTHUSIASTIC ABOUT EXPLORING NEW ALGORITHMS AND DATA STRUCTURES.
PASSIONATE ABOUT CREATING IMPACTFUL SOFTWARE SOLUTIONS.
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ |
```

13. Print "VTCBB" as "VTBB".

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ echo "VTCBB" | sed 's/C//'
VTBB
```

14. Print "VTCBB" as "VTCD".

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ echo "VTCBB" | sed 's/BB/D/'
VTCD
```

15. Display only duplicate line from file "stud.csv"

```
Lakshman@LAPTOP-L6LE88K1 ~/journal/set-1
$ sort stud.csv | uniq -d
104,Ananya Gupta,Chennai,Information Technology
105,Amit Patel,Kolkata,Civil Engineering
106,Sneha Verma,Hyderabad,Computer Science
107,Rahul Singh,Delhi,Electronics and Communication
108,Kavita Sharma,Mumbai,Mechanical Engineering
```