AIM:	Implement various operations on files to solve a given problem.
Program 1	
PROBLEM STATEMENT:	A publishing company holds in file detail of all the books they publish. However, in the future, they wish to maintain two distinct files (i) paperbacks and (ii) hardbacks. Write a program that reads a file containing details of both paperback and hardback books and creates two files as specified above. Assume that the first character in each input record indicates if the book is paperback(p) or hardback(h) or both(b).
PROGRAM:	"All_books.txt" Files Contents:  p,Alice in wonderland,Lewis Carroll,1234.50 h,Harry Potter,J.K. Rowling,2345 b,Nancy Drew,Enid Blyton,4222.70 h,Percy Jackson,XYZ,6652 b,Inception,ydud,3888 h,Aligater,jsijs,6877  Program:  "include <stdio.h>  void categorise_books(char file_b[],char file_h[],char file_p[])  {     char type,title[30],author[20];     float price;     FILE*fp1,*fp2,*fp3;     fp1=fopen(file_b,"r");     //Opening the file     fp2=fopen(file_b,"w");     while(fscanf(fp1,"%c,%[^,],%f\n",&amp;type,title,author,&amp;price)!=EOF)  {         if(type=='h')//To check if the book is hardback         fprintf(fp2,"%s,%s,%.2f\n",title,author,price);         if(type=='p'))//To check if the book is paperback         fprintf(fp3,"%s,%s,%.2f\n",title,author,price);         if(type==b')          {             fprintf(fp2,"%s,%s,%.2f\n",title,author,price);             if(type==b')         }         }         flose(fp1);         fclose(fp2);         fclose(fp3);     }     int main()     {         categorise_books("all_books.txt","hardbacks.txt","paperbacks.txt");         return 0;</stdio.h>

### **RESULT:**

**♦** "handbacks.txt" Files Contents

```
main.c all_books.txt i hardbacks.txt i paperbacks.txt i

1 Harry Potter, J.K. Rowling, 2345.00
2 Nancy Drew, Enid Blyton, 4222.70
3 Percy Jackson, XYZ, 6652.00
4 Inception, ydud, 3888.00
5 Aligater, jsjjs, 6877.00
```

♦ "paperbacks.txt" Files Contents

```
main.c all_books.txt : hardbacks.txt : paperbacks.txt :

1 Alice in wonderland, Lewis Carroll, 1234.50
2 Nancy Drew, Enid Blyton, 4222.70
3 Inception, ydud, 3888.00
```

**Program 2** 

# PROBLEM Set up a informat

Set up a file containing vehicle records which hold registration number and owner information (name and address). Write a program which, given a vehicle's registration number, will rapidly retrieve and print the owner information.

#### **PROGRAM:**

### "vehicles.txt" File Contents:

R1234, Tina Parekh, Andheri

T1543,Falak Khan,Bandra

T2344,Rahul Roy,Khar West

R2362, Pranau Singhvi, Borivali West

R1243, RAFI Parekh, Andheri

R12354.PAKAR Parekh.Andheri

R12345, Dinchank Parekh, Andheri

R2323, Pooja Parekh, Andheri

R9999, Tanmay Parekh, Andheri

R69696, Jai Parekh, Andheri

### Program:

```
scanf("%d",&n);
       fp1=fopen(filename,"r");
       for(i=0;i<n;i++)
              flag=0;
              printf("Enter owner's registration no.:");
              scanf("%s",reg_no);
               while (fscanf(fp1,"\%[^{\wedge},],\%[^{\wedge},],\%[^{\wedge}])n",v.reg no,v.owner,v.address)! = EOF) 
                     if(strcmp(v.reg_no,reg_no)==0)//Trys to find the entered register
number
                       printf("FOUND!\n----");
                            printf("\nName of owner: %s\nAddress of owner:
%s",v.owner,v.address);
                            printf("\n----");
                            flag=1;
                            break;
              }//end while
              if(flag==0)
                     printf("\nSorry, Not found!");
              rewind(fp1);
       }//end-for
       fclose(fp1);
}//end-print owner
int main()
       print owner("vehicles.txt");
       return 0;
```

## **RESULT:**

```
Enter the number you want to repeat:1
Enter owner's registration no.:R1234
FOUND!

Name of owner: Tina Parekh
Address of owner:Andheri
```

## Program 3

# PROBLEM STATEMENT:

Convert All Characters into Upper Case of a File using C Program file "sample.txt" which contains "This is sample.txt file document." we will read all characters and convert them into uppercase and write into the temporary file then rename temporary file to sample.txt and remove temp.txt file.

### **PROGRAM:**

# "sample.txt" File Contents:

A paragraph is a series of sentences that are organized and coherent, and are all related to a single topic. Almost every piece of writing you do that is longer than a few sentences should be organized into paragraphs.

### Program:

```
#include <stdio.h>
int main()
  FILE *fp1, *fp2;
  fp1 = fopen("sample.txt", "r"); // opening in read mode
  fp2 = fopen("temp.txt", "w"); // opening in write mode
  char character;
  while (fscanf(fp1, "%c", &character) != EOF)
  if (character \geq 97 && character \leq 122)
  fprintf(fp2, "%c", character - 32);
  else
  fprintf(fp2, "%c", character);
  fclose(fp1); // closing files before removing and renaming
  fclose(fp2);
  remove("sample.txt"); // deleting file
  rename("temp.txt", "sample.txt"); // renaming file
  return 0;
```

### **RESULT:**

main.c sample.txt :

1 A PARAGRAPH IS A SERIES OF SENTENCES THAT ARE ORGANIZED AND COHERENT, AND ARE ALL RELATED TO A SINGLE TOPIC.

2 ALMOST EVERY PIECE OF WRITING YOU DO THAT IS LONGER THAN A FEW SENTENCES SHOULD BE ORGANIZED INTO PARAGRAPHS.

### **CONCLUSION:**

We learned to implement various operations on files to solve a given problem.