Topic: Files

. Display contents of a given file (use char input function)

```
#include<stdio.h>
#include<conio.h>
void main()
  FILE *fp;
  char ch;
  char nm[20];
  clrscr();
  printf("Enter a file name :");
  gets(nm);
  fp = fopen(nm, "r");
  if(fp!=NULL)
     ch = fgetc(fp);
     while(ch!=EOF)
         printf("%c", ch );
         ch = fgetc(fp);
     fclose(fp);
  else
     printf("File not found");
```

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FE / SE / TE / BE

getch(); Santosh Kabir Sir

2. Display contents of a given file (use String input function)

```
#include<stdio.h>
#include<conio.h>
void main()
  FILE *fp;
  char line[80];
  char nm[20];
  clrscr();
  printf("Enter a file name :");
  gets(nm);
  fp = fopen(nm, "r");
  if(fp!=NULL)
      while(fgets(line, 80, fp)!= NULL)
         printf("%s", line);
      fclose(fp);
  else
      printf("File not found");
  getch();
```

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```
3. Copy contents of one file to another
#include<stdio.h>
#include<conio.h>
                                                            Enroll for SE Sem III subjects...
void main()
                                                         Comp/ IT - Data Struct., Java, DBMS etc.
   FILE *fr, *fw;
                                                         Civil/Mech - SOM, FM, ATD etc
   char ch;
                                                         Elex/Extc - EDC, CTL, AE etc
   char src[20], dest[20];
                                                                          & Maths 3
   clrscr();
   printf("Enter a source file name :");
                                                                  100 % Results !!!
   gets( src );
   fr = fopen( src , "r"); // open source file for reading
   if(fr!= NULL) // if the file exists
      printf("Enter a Destn.e file name :");
      gets( dest );
      fw = fopen(dest, "w"); // open destn. file for writing
      ch = fgetc(fr);
      while(ch!=EOF) // repeat till end of file
         fputc(ch, fw); // copy char into destn file
         ch = fgetc(fr); // read char from source file
      fclose(fr);
      fclose(fw);
      printf("File contents copied..");
   else
      printf("Source File not found");
   getch();
4. Copy contents of one file to another by converting lowercase letters to uppercase
   and uppercase letters to lowercase
                                                  [M-2016]
#include<stdio.h>
#include<conio.h>
void main()
   FILE *fr, *fw;
   char ch;
   char src[20], dest[20];
   clrscr();
   printf("Enter a source file name :");
   gets( src );
   fr = fopen( src , "r"); // open source file for reading
   if(fr!= NULL) // if the file exists
      printf("Enter a Destn. file name :");
      gets( dest );
      fw = fopen( dest , "w"); // open destn. file for writing
```

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```
ch = fgetc(fr);
     while(ch!=EOF)
         // convert char to upper or lowercase
         if( ch \ge a' \&\& ch \le z')
            ch = toupper(ch);
         else if( ch \ge A' \& ch \le Z')
            ch = tolower(ch);
         fputc(ch, fw); // copy char into destn file
         ch = fgetc( fr ); // read char from source file
     fclose(fr);
     fclose(fw);
     printf("File contents copied..");
  else
     printf("Source File not found");
  getch();
}
5. Count number of words in a file
#include<stdio.h>
#include<conio.h>
void main()
                        antosh Kabir S
  FILE *fp;
  char ch, ch1;
  char nm[20];
                                                Spectrum Engineering Classes
  int w=0; // counter for words
  int f = 0;
  clrscr();
                                         Thane:
                                                                         Dombivali:
                                         2<sup>nd</sup> Floor, Thakor Niwas,
                                                                         2<sup>nd</sup> Floor, Narayan krupa,
  printf("Enter a file name :");
                                         Above Tiptop Plaza,
                                                                         op. Kasturi Plaza,
  gets(nm);
                                         Thane (West)
                                                                         Manpada Road.
                                         38898370135
                                                                         Dombivali(East)
   fp = fopen(nm, "r");
  if(fp!=NULL)
                                                                         3 889 828 7767
     ch = fgetc(fp);
     while(ch!=EOF)
         if( ch == ' ' | ch == ' n' | ch == 9)
         else if (f == 0 && ( ch!= '' && ch!= '\n' && ch!= 9 ) ) // if 1^{st} char of word is read
           f = 1;
            w++;
         ch = fgetc(fp);
     fclose(fp);
     printf("No. of Words = %d", w);
```

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```
else
      printf("File not found")
   getch();
6. Write data for n employees (no, name salary) into a file emp.dat.
  Then display employee data for a given emp.no
#include<stdio.h>
#include<conio.h>
struct Employee // struct. Definition for Employee data
   int no;
   char name[30];
   int sal;
};
void main()
   struct Employee a; // struct. to hold 1 emp data
   FILE *fp;
   int i, n, no;
   clrscr();
   fp = fopen( "emp.dat" , "w"); // open file for writing
   printf("How many emp data:");
   scanf("%d", &n);
   printf("\nEnter employee info.\n");
   for(i=1; i<=n; i++) // for n times
     printf("Enter no, name, salary\n");
     scanf("%d", &a.no); // ip emp data
      fflush(stdin);
      gets(a.name);
      scanf("%d", &a.sal);
      fflush(stdin);
     fwrite( &a, sizeof(struct Employee), 1, fp); // write emp data to file
  fclose(fp); //close file
   fp = fopen("emp.dat", "r"); // open the file again, for reading
   printf("\n\nEnter emp no :"); // input no to search
   scanf("%d", &no);
   for( i=1; i<=n; i++)
      fread( &a, sizeof(struct Employee), 1, fp); // read next emp data from file
     if(a.no == no) // check the emp.no
      {
         printf("Emp name=%s\n", a.name);
                                                         Enroll for SE Sem III subjects...
         printf("Salary = %d n", a.sal);
         break; // stop loop
                                                      Comp/ IT - Data Struct., Java, DBMS etc.
     }
                                                      Civil/Mech - SOM, FM, ATD etc
                                                      Elex/Extc - EDC, CTL, AE etc
  if (i > n)
                                                                      & Maths 3
     printf("Emp. data not found");
                                                               100 % Results !!!
   fclose(fp);
   getch();
}
                                              =====
```