

FILE HANDLING



Imp. Note-

- refer man page if any doubt in any function.
- command - **man function_name**
- eg.- man fgets, man fopen etc.

fopen() and fclose()

```
#include<stdio.h>
int main()
{
FILE *fp;
fp = fopen("INPUT.txt","r"); // Open file in Read mode
if (fp == NULL)
{
printf("File does not exists \n");
return 1;
}
fclose(fp); // Close File after Reading
return 0;
}
```

fopen(), fclose(), fprintf()

```
#include<stdio.h>
int main()
{
FILE *fp;
fp = fopen("INPUT.txt","r"); // Open file in Read mode
if(fp == NULL)
{
printf("File does not exists \n");
return 1;
}
fprintf(fp,"Hello world this is a c class");
fclose(fp); // Close File after Reading
return 0;
}
```

fputc()

```
#include<stdio.h>
int main()
{
FILE *fp;
char ch;
fp=fopen("/home/coep/Music/div7.txt","w");
printf("Keep typing characters. Type q to terminate\n");
scanf(" %c",&ch);
    while(ch!='q')
        {
            fputc(ch,fp);
        }
    fclose(fp);
    reutrn 0;
}
```

fgetc()

```
#include<stdio.h>
int main()
{
FILE *fp;
char ch;
    fp=fopen("abc.txt","r");
    ch=fgetc(fp); // reading a character at a time from a file opened
by fp
    while(ch != feof)
    {
        printf("%c",ch);
    }
    fclose(fp);
return 0;
}
```

fprintf()

```
void main()
```

```
{
```

```
FILE *fp;
```

```
fp = fopen("output.txt","w"); // Open File in Write Mode
```

```
fprintf(fp,"Hello World");
```

```
}
```

fprintf()

```
void main()
{
FILE *fp;
int a,b,c;
a = 10;
b = 20;
fp = fopen("output.txt","w"); // Open File in Write Mode
c = a + b ;
fprintf(fp,"Sum of %d and %d is %d",a,b,c);
}
```

fprintf()

```
#include<stdio.h>
void main()
{
    FILE *fptr;
    char name[20];
    int age;
    fptr = fopen("emp.txt", "w"); /* open for writing */
    printf("Enter the name \n");
    scanf("%s", name);
    fprintf(fptr, "Name = %s\n", name);
    printf("Enter the age\n");
    scanf("%d", &age);
    fprintf(fptr, "Age = %d\n", age);
    fclose(fptr);
}
```


fprintf()

```
int main()
{
int month = 11, date = 10, year = 2017;
float rate = 65.000000000;
char dateStr[10] = "Today is";
char rateStr[20] = "and exchange rate is";
FILE *fp;
fp = fopen("INPUT.txt","a+");
if(fp!=NULL)
{
fprintf(fp,"%s %d %d %d %s %f \n",dateStr, date, month, year, rateStr,
rate);
return 0;
}
fclose(fp);
return 1;
}
```

fscanf()

```
#include<stdio.h>
int main()
{
    FILE *fp;
    char ch[100];
    int i = 0;
    fp=fopen("INPUT.txt","r");
    printf("Reading from file\n");
    while(!feof(fp))
    {
        fscanf(fp,"%s ",ch); // reading from file
        puts(ch);    // printing on console
    }
    fclose(fp);
    return 1;
}
```

fscanf()

```
int main()
{
FILE *fp;
int a= 3,b=5,c=0;

fp = fopen("output.txt","w+"); // write + read mode
fprintf(fp,"Value of a is %d and b is %d. ",a,b);
fscanf(fp, "%d %d", &a, &b);
c = a + b ;
fprintf(fp,"Sum of %d and %d is %d",a,b,c);
return 0;
}
```

fputs()

```
void main()
{
char name[20];
FILE *fp;
char ch;
int i,n;
    fp=fopen("div8_string.txt","w");
    printf("Enter the number of names\n");
    scanf("%d",&n);
    printf("Enter %d names\n",n);
    for(i=1; i<=n; i++)
    {
        scanf(" %s",name);
        fputs(name,fp);
        fputc('\n',fp); // to put every name on new line in file
    }
    fclose(fp);
}
```

fgets()

```
#include<stdio.h>
void main()
{
char name[20];
FILE *fp;
char *ptr=NULL;
int i,n;
    fp=fopen("div7_string.txt","r");
    for(i=1; !feof(fp); i++)
    {
        fgets(name,20,fp); // reading strings from file
        if (ptr!=NULL) //print only if fgets returns success
            printf("%s",name);    //printing strings of files on console
    }
    fclose(fp);
}
```