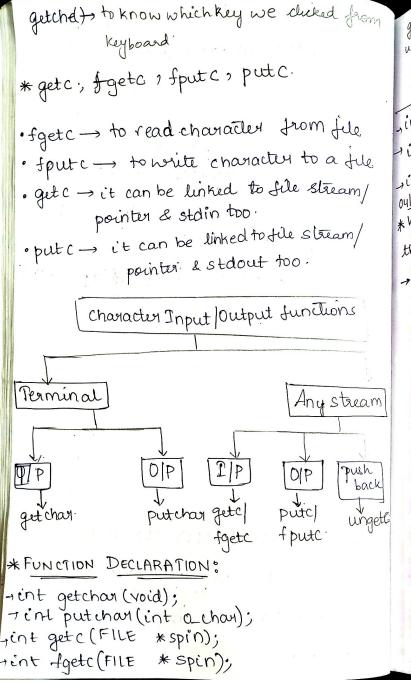


fp=fopen ("input.txt", "r"); if (fp==NULL) { print ("cannot open"); exit(o); · when the file is opened; pointer points is the first element of the file. - input stream is opened & linked to be 2) write mode: Saprence fp = fopen("input·txt", "w"); not mandatory to exist It the file is not present; it creates a new one and in opened to enterdata * If the file is present; it is opened and existing content is replaced with the newly entired data and a theold data is · The above cases; returns a FILE pointer: → But when the data is full / memory us filled; it returns NULL. Stream is opened & is linked →output to file to enterdata & closed

& Append Mode: ip=fopen("input·txt", "a"); it opens and points to the last location and starts writing from the end. mui is no overlap of the content. *9) the file does not exist; it created & pointer points to 1st location. fclose (file pointer) used to close the opened the FILE * SP1 3* SP2. read Off Write to __ Read from area Display. vala stream o file read & write - first read & then write *CHARACTER INPUT OUTPUT FUNCTION: gdon (getchar () -> read a character from key board put char () -> printing the character getch - waits to click a key on the keyboard



```
getc ?
unget c}
        Reads
                                 Characteri
         the old
         character
int putc (int onechar, FILE *fp);
intsputc(int onechar, FILE *fp);
, int ungetc (intonechar), FILE * (P);
04/03/2022 a program to read the data from
the keyboard and write it into a file.
, opening a file in write mode.
 #include Zstdio.h>
    int main ().
   { chay ch';
       FILE *fp;
       fp = fopen ("sample.dat", "w");
      if (fp==NULL)
         printf ("File cannot be created");
            exit (0);
       { while ((ch = getchan())!=EOF)
                 fputc(ch,fp);}
```

```
's fclose (fp); @
   action 0°,
 * Write a program to read the contents of
  file and display it on monitor.
 #include <stdio.h>
                               feol (fp)
    # include <stalib.h>
   int main ()
                                   - greturen T
                                  pointer sind
   3 chay ch',
      FILE *fp;
      fp = fopen (" sample · dat", "r");
     if (fp = = NULL)
         printf(" File does not exist"): }
           exit(0): }
     { while (! feof(fp)).
        { ch = fgetc(fp);
           putchar(ch); 3. }
        fclose (fp);
      return 0; }
* Write a program to copy the contents
 of one file to another file.
```

```
# include < stdio.h>
int main ()
{char chi
 FILE *fp1, *fp2;
  fp = fopen ("Sample.dat", "r");
  fp2 = fopen (" output · dat", "w");
  if (fbt == MOLL).
       pounts ("File does not exist");
        exit(0);
  if (fp2 == NULL)
       pointf("File does not einst");
        exit(0);
 else { }
  while (1, foot (+p))
   { ch= & f getc (fp);
            fputc(ch, fp2);}
     fclose (4P);
    Returno; 4
```

```
* Waite a program to store student records into
 a file ...
# sto include < stalib.h>
  # include < stdio.h>
 Struct student
   int rno;
     chay name[30];
       int tmanks;
  int main ()
       int nyi;
     Struct student 5,9%;
      FILE * fp;
     fp = fopen ("sample dat", "wb");
     print f ("Enter no of students"); Su
     scanf (" % d", &n);
    for (i=1; i <= n; i++)
     { printf(" Enter student record");
        printf(" Enter rno");
       scanf ("%d", & s. yno);
        print f (" Enter name");
        Scanf ("%s", s.name);
         printf ("Entry marks");
          scanf ("1.d", &s.tmarks);
```

```
furite (85, Sizeof(s) $, 1, fp) For birary
  3 fclose(fp);
                                  twrite
 return 0°)
                                   fread
*Waite a paragram to read the student detail
 from file and display it on the monitor.
endinuing above program filose (IP);
fp=fopen("student.dat", "rbe");
 for (i=1, i<=n; i++)
 { fread(&q, sizeq(q), 1, fp);
     printf("%d\t%s\t%d\ \n,9.400,
                                  q.name,
                                   q. Emarks):
   } fclose (fp); > status = fclose (fp);
   return 0; if (status == EOF)
                  { prints("NOT"); }
   ζ.
Hall: Current location
freek: get the pointer to a particular location
```

rewind: get back to beginning. → Reading from file:

* fscant (fp, " /.d', &b); => Any datatype paintin. fprints (fp, "%d", (C);

tscant => reads complete enteger from a file: fpaint f => privats complete integer to a file

```
05/03/2022
 * Binary files: Storing in the form of bytes
 * Text files: charactures (ascii).
 * TEXT FILE: >> fscanf(fp, "%d", &c);
              fprints (fp," /, d", C).
   fputc(1p)
                so write the data of
   Characters
                 diff datatypes -
                      Jurite address Sige no q
Variable re
 -)fwrite (& structure, size of (SV), no of , fp).
-) fread (& structure, size of (sv), no of, fp);
 ⇒ For random access of data file:
1) ftell ()
                  3) rewind ().
2) fseek()
·stell'
  ⇒ long unt ftell(file pointer)
to give the current file pointer location.
智: FILE *fp;
  fp = fopen ("tile.c"," ");
  points (" % lda" ftell (fp)).
```

```
=) fseek (file pour not), offset, position).
fseek.
point the file pointed to a particular location
 in file.).
the pointer - offset = -ve: backward
        the pointer.
                           offset =- ve: backward
*position: can have the values.
           o → from beginning.
           1 - Jaon current location
           2 -> from the end of the file.
SEEK END
   fseek (fp, 3, SEEK_END);
    freek (fp, -3, SEEK_SET)
   +seek (fp, O, SEEK SET): - Valid and locate
                           to beginning location
```

* to make the file pointer bring back to first

fseakly

· sewind:

rewind (fp):

lo certion.

```
* Write a program to read the details
 Of a specified employee.
# include <stdio.h>
 sto typedel struct:
      { char name[20];
          int id;
       chan department[10];
          int age;
      F EMPLOYEE;
      main ()
  int
       chansche; int n;
       FILE *fp;
    fp = fopen("employee; dat", "rb");
      EMPLOYEE ET;
    if (fp == NULL)
      printf("File is not opened.");
   else
     prints (" Enter the sucord number to be
                     Read");
      Scanf(" %d", &n);
   tseen for Day A
```

```
freeh (fp, (n-1)*sizeof(E), 0);

freed (&e1, sizeof(E1), 1, fp);

printf ("%sh, e1.name);

printf ("%dh, e1.id);

printf ("%d\n", e1.age);

flose (fp); &

gretuin 0; }

white a program to read 5 student records:

to a file:
```