19/00	1
STRUCTURES 19/09/	17
011/0010100	
struct tag-name (ophonal)	
2	
dat atype 1 member 1;	
datatype 2 member 2;	
Contraction 2	
3;	
(a) a) when the contraction of t	
e-9 struct book	
~ ~	
char name [20]; 20	.00
char au-name [30]; 30	
int pages; 2	
float price; 4	
3; 56 size of (book	()
The state of the s	
continuous allocation of momory according	10
the order of data tupes dealers of it	10
the order of data types declared defined.	
struct tag-name var name	
70254162 (4072-1100)	
e, g struct book b1;	-
The part of the pa	

```
chan name [20];
     char au-name [30];
   structure.
  struct book b1= { "xxz", "abe", 100, 120.53, b2, b3;
   b1.name
    b1. au-name
   61. page
   61. puice
Q. WAP to create a stemchere date then input date of joining of one employee and point it.
   int day;
int month;
int year;
  int year;
   void main()
      struct date doj?
      prints ("enter doj");
      scang & ("1.d1.d1.d', & doj.day, kdoj. month, kdoj ye el);
      peints (" 1.d 1.d 1.d. doj. day. doj. morth, doj. year ))
```

```
Q. WAP to create a structure student to store
    information like name, all no. and page of
   student, then input information for 2 student
    and print noll no. of that student whose Yage
   struct student
   char name [20];
   int roll:
float per:
   void main ()
      stemet student s1, s2;
      gets (st. name);
      gets (s2. name);
      scanf ("% d'.f", ks 1. noll, k s 1. per);
      seanf ("%.d%.f", & 52, goll, & s2. per);
      if ( $1. per > 82. per )
              prints ("%.d", s1.40ll);
              prints ("1.d", 82. noll);
     getch ();
```

```
Q. Input the values for n no, of students and print name of those students whose percentage is more than 75%.
      morethan 75%.
    stauct student
   char name [20];
int a oll;
float per;
      void main()
            struct student s[50];
int i, n;
scanf ("%d", &n);
for (i = 0; i < n; i++)

gets (s[i]. name);
scanf ("%d% f", & s[i]. holl, & s[i].per);

3
             for (i = 0; i < n; i++)
                   if (s[i].per > 75)

prints("If puts(s[i].name);
```

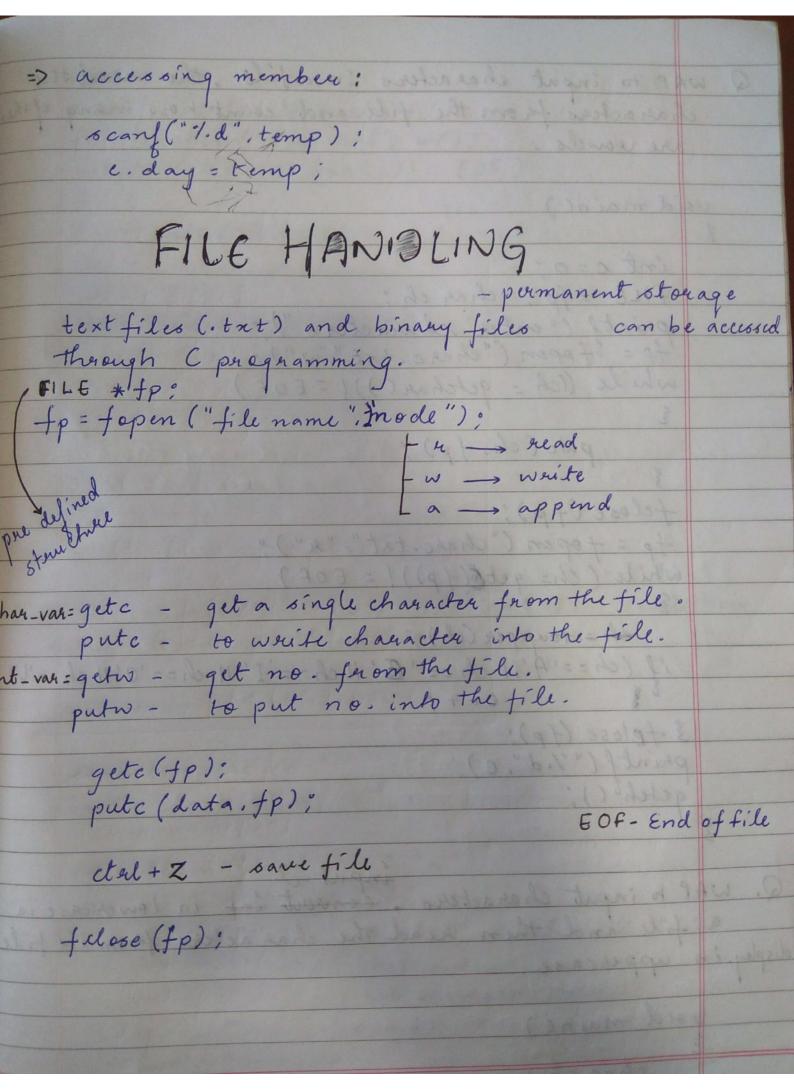
```
Q. Cu ate a stemchure student to store name, solly
   and marks in 5 subjects.
WAP to input information for n no of shiders
    and print % age of all students.
   struct shudent
     char name [20];
     int noll;
   float mark [5];
    void main ()
       struct student s[100];
       float arg:
       int i, j, n, pum = 0;
       scanf ("%d", &n);
       for ("= 0; i<n;i++)
         gets (s[i], name);
            scanf ("%d", & stil , 40ll);
            for (j=0; j<5; j++)
         scanf ("/.f", ks[i]. mark[j]
      for(i=0; i<n;i++)
         for (j=0;j<5;j++)
              sum + = stiJ. marktjj;
     avg = soum/5;
    printy ("/-f", avg);
    getch (); 3
```

no.	Q. Create a structure employee to store information like		
1			
4	input intograpion tour na al		
	and point total salary distributed in a month.		
-	employee	with a month,	
	O struct studen	AND S THOUGH	
	0 &	(0)	
	char name [30];	struct date	
	int day;	,	
	int month;	int day;	
	int year;	in month,	
	float salary;	int year;	
	3	3,	
1/1/1	void main()	struct employee	
	Endburg signer	£	
	steuct employée e [50];	char name [20];	
	int i, n	stanct date doj;	
	scanf ("%.d", &n);	int salary;	
	for (i b=0; i <n; i++)<="" th=""><th>3 2 20 00</th></n;>	3 2 20 00	
	<u> </u>		
	gets (elij.name)	611	
	191317	(C)	
	3 struct employee void m	ain, at some	
	2 . L	ourct employée e [30];	
	char name (20),	i, sum=0, n,	
	01414111 0000		
	Bea	nf ("1,d",2n);	
	int day; for	("= 0; i <n; i++)<="" th=""></n;>	
	int month; E	artilocia name)	
	int year;	gets(eciJ.name)	
	3 001;	ke[i].doj.day,	
	int salany;	kelij.doj, monin,	
	3:	ke [i]. doj- yeer);	
	atod stod		
	classmate		

```
scanf ("%d", e [i]. salary);
 for (i=0; i<n; i++)
   sum + = e [i]. salary;
  prints ("1.d", sum);
        UNION
union trop

int x;

float y;
                       -> size of union = highest
memory occupying member
charz;
          BIT FIELD
 decide the length of the variable; user
struct tmp
int day: 1;
                               applied only on integers data type
 total sum of assigned bit field can not be more than size of integer variable.
```



```
Q. WAP to input characters in a file, the read the
      characters from the file and count how many of them
      are vowels.
     void main ()
                    ILE HANDLINE
         int c = 0;
         FILE *fp; charch;
        prints ("enter characters");

fp = 8 fopen ("charc. +xt","»");

while (1.0)
        while ((ch = getchar())! = E of)
             putc (ch, fp);
        fclose (fp);
        fp = fopen ("charc.txt", "A");
        while (ch= get (fp))! = EOF)
           th = toupper (ch);
         if (ch = = 'A'(1 ch == 'B' 11 ch == 'I' 11 ch == 'O' 11 ch == 'U')
        3 felose (fp);
        printf ("1.d", c);
        getch ();
                             input of
Q. WAP to input characters, convert in in lower case in
     a file and then read the characters from the file
display in uppercase
      void main()
         charch;
      CIASSMA'CC
```

```
the
             FILE * fp
of them
             prints ("enter characters");
              fp = 0 fopen ("file. +xt", "w");
              while (ch = getchar())! = EOF)
                   putc (ch.fp);
              fclose (fp);
              tp = fopen ("file.txt", "n");
while (ch = getc(fp))! = Eof)
                   prints ("%c", ch - 32);
               fclose (fp);
getch();
         Q. WAP to input no. in a file and then count hois many of them are even no.
= "U")
            void main ()
              fILE * fp;
             int c = 0,9, num, h;
             fp = fopen ("test.txt", "w");

print f ("Enter limit");

scanf (""/.d, &n)

for b (i = 0; i < n; i + +)
e in
files
                   poutes (num, fp);
            Classmate
```

```
I close (fp);
fp = fopen ("test, txt", "4");
    ton (i=0; ixn; i++)
         num = getw(fp);
         if (num % 2 = = 0)
   fclose(fp)
paint ("".d", c);
Q. WAP to input no. in a file and copy those no. inh
two files on the basis of tre t tre no.
   void main ()
   6 FILE * fp. * +1, * +2;
    int n, num, 1;
    fp = fopen ("test".txt", "w");
     points ("1.d", in);
     for Sci-o; ixn; i++)
        scanf("1.d", & num);
        putw (num, fp);
     fclose (fp);
     fp = topen ("test. txt", k");
     fi = fopen ("positive txt", "w");
    12 = topen ("negalice.txt","w");
     for (i=0; i<n; i++)
```

```
I take a in both for load.
      num = get iv(fp)
        if (num > 0)

b putw (num, f1);

else
                 puhu (num, {2);
                                       newind (fp);
         tplose (fp);
        fclose (f1);
        fclose (+2);
         fp = topen ("test. txt", "g");
         for (i=0; i<n;i++)
             getw (num, fp)
printf ("%d", num);
info
         fclose (fp);
         f1 = fopen ("positive.txt", """);
         for (i=0; i<n; i++) while (num = getw(f1)!=Eof)
             geho (num, f 1);
puint f ("%d", num);
          fclose(+1); (Mrnm) to at = +4
         12 = fopen ("negative.txt", """);
        40% (i=0; i < n; i++) while (num=getw(f2)]=E0F)
             gelno (num, f2);
puint f ("-/,d", num);
         fclose (f2);
         getch();
       CLASSMATE
```

```
03/05/17
Q. WAP to input the integers in a file, then calculate
    factorial of all no. using function fact() and
     save the calculated factorial into another for
      int fact (int);
     void main ()
       file * fp. * tc;

int n, num, i, f;

fp = fopen ("factorial, txt", "w");

print ["enter limit");
        scanf ("%d", &n);
        for ("i=0; i<n; i++)
            scanf ("o/od", & num);
            putio (num, fp);
fclose (fp);
    fp=fopen ("tactorial.txt", "h");
tc=fopen ("t.txt","w");
for (i=0; i<n; i++)
            num = getw (fp);
            if = fact (num);
            prints ("1.d', f); put w (+, fe);
       fclose (fp);
      + close (fc);
      int fact (int num)
           int f = 1, i
            for (i = 2; i <= num; i++)
               f= f* i;
            neturn (+);
      CIASSMATE
```