

EXPERIMENT : 9FILE HANDLING IN C

- 1). Write a program to create a new file and write text into it.

```
#include <stdio.h>
int main () {
    char text [200];

    printf ("Enter text : \n");
    fgets (text, sizeof (text), stdin);

    printf ("Pretend writing to file : %s\n", text);
    printf ("File created successfully (simulation
            only).\n");

    return 0;
}
```

Output:- Hello Everyone I am studying in upes university dehradun. Dehradun is the very beautiful place.

Pretend writing to file : Hello everyone I am studying in upes university dehradun. Dehradun is the very beautiful place.



```
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char text[100];
6
7     // Open file in write mode
8     fp = fopen("newfile.txt", "w");
9
10    // Check if file is created successfully
11    if (fp == NULL) {
12        printf("Error! Unable to create file.\n");
13        return 1;
14    }
15
16    printf("Enter text to write into the file:\n");
17    fgets(text, sizeof(text), stdin);
18
19    // Write the text into the file
20    fputs(text, fp);
21
22    printf("Text written successfully into 'newfile.txt'\n");
23
24    // Close the file
25    fclose(fp);
26
27    return 0;
28 }
```

Error! Unable to create file.

--- Code Exited With Errors ---

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2. Write a C program to compute the monthly pay of 100 employees using each employee's name, basic pay. The DA is computed as 52% of the basic pay. Gross-salary (basic pay + DA). Print the employees name and gross salary.

```
#include <stdio.h>
```

```
#define EMP-COUNT 10
```

```
struct Employee {
    char name[50];
    float basic-pay;
    float da;
    float gross-salary;
};
```

```
int main () {
```

```
    struct Employee temp [EMP-COUNT];
```

```
    int i;
```

```
    printf ("Enter details of %d employees: \n",  
           EMP-COUNT);
```

```
    for (i=0 ; i < EMP-COUNT ; i++) {
```

```
        printf ("\nEnter Employee %d\n", i+1);
```

```
        printf ("Enter name: ");
```

```
        scanf ("%s", temp[i].name);
```

```
        printf ("Enter basic pay: ");
```

```
        scanf ("%f", &temp[i].basic-pay);
```

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$\text{emp}[i].da = 0.52f * \text{emp}[i].\text{basic_pay};$

$\text{emp}[i].\text{gross_salary} = \text{emp}[i].\text{basic_pay} +$
 $\text{emp}[i].da;$

{}

`printf ("\\n% -20s% -15s\\n", "Employee
Name", "Gross Salary");`

`printf ("\\n% -20s% -15s\\n", "Employee
Name", "Gross Salary\\n");`

`for (i = 0; i < EMP-COUNT; i++) {`

`printf ("%20sRs. %.2f\\n", emp[i].name,
emp[i].gross_salary);`

{}

`return 0;`

{}

main.c



Run

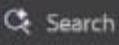
Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char ch;
6
7     fp = fopen("newfile.txt", "r");
8
9     if (fp == NULL) {
10         printf("Error! File not found.\n");
11         return 1;
12     }
13
14     printf("Contents of the file:\n\n");
15
16     while ((ch = fgetc(fp)) != EOF) {
17         putchar(ch);
18     }
19
20     fclose(fp);
21
22     printf("\n\nFile read successfully and closed.\n");
23
24     return 0;
25 }
```

Error! File not found.

--- Code Exited With Errors. ---

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3). Write a function that accept pointers as parameters. Pass variables by reference using pointers and modify their values within the function.

```
#include <stdio.h>
```

```
void modifyValues (int *x, float *y, char *z) {
```

```
*x = *x + 10;
```

```
*y = *y + 2;
```

```
*z = *z + 1;
```

```
}
```

```
int main () {
```

```
int a = 5;
```

```
float b = 3.5;
```

```
char c = 'A';
```

```
printf ("Before modification: \n");
```

```
printf ("a = %d\n", a);
```

```
printf ("b = %.2f\n", b);
```

```
printf ("c = %c\n\n", c);
```

```
modifyValues (&a, &b, &c);
```

```
printf ("After modification (inside function): \n");
```

```
printf ("a = %d\n", a);
```

```
printf ("b = %.2f\n", b);
```

```
printf ("c = %c\n", c);
```

Experiment No. _____ Name: _____

PAGE NO.: 17

DATE: / /

3

return 0;

Output :- Before modification :

a = 5

b = 3.50

c = A

After modification (inside function) :

a = 15

b = 7.00

c = B

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main.c



Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char line[200];
6
7     fp = fopen("newfile.txt", "r");
8
9     if (fp == NULL) {
10         printf("Error! File not found.\n");
11         return 1;
12     }
13
14     printf("Contents of the file:\n\n");
15
16     while (fgets(line, sizeof(line), fp) != NULL) {
17         printf("%s", line);
18     }
19
20     fclose(fp);
21
22     printf("\n\nFile read successfully and closed.\n");
23
24     return 0;
25 }
26
```

Error! File not found.

== Code Exited With Errors ==

