

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);
```

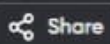
```
    printf ("Pretend writing to file : %s\n", text);
    printf ("File created successfully (simulation only).\n");
```

```
    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 emp[EMP_COUNT];  
    int i;
```

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

```
    for(i=0; i < EMP_COUNT; i++) {
```

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

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

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

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

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

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```
emp[i].da = 0.52f * emp[i].basic - pay;
```

```
emp[i].gross - salary = emp[i].basic - pay +  
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



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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 \n", c);
```


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```
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



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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 ===



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