

CODTECH Internship Task - 1

File Handling Program in C

Instructions:

- Write a C program to create, read, write, and append data to a file.
- Demonstrate file operations using the C language.

C Code:

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

void createFile(const char *filename) {
    FILE *file = fopen(filename, "w");
    if (file == NULL) {
        printf("Error creating file!\n");
        return;
    }
    printf("File '%s' created successfully.\n", filename);
    fclose(file);
}

void writeToFile(const char *filename) {
    FILE *file = fopen(filename, "w");
    if (file == NULL) {
        printf("Error opening file to write!\n");
        return;
    }
    char data[100];
    printf("Enter data to write into the file: ");
    getchar();
    fgets(data, sizeof(data), stdin);
    fputs(data, file);
    printf("Data written successfully.\n");
    fclose(file);
}

void readFile(const char *filename) {
    FILE *file = fopen(filename, "r");
    if (file == NULL) {
        printf("Error opening file to read!\n");
        return;
    }
    char ch;
```

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```
printf("File content:\n");
while ((ch = fgetc(file)) != EOF) {
    putchar(ch);
}
fclose(file);
}

void appendToFile(const char *filename) {
    FILE *file = fopen(filename, "a");
    if (file == NULL) {
        printf("Error opening file to append!\n");
        return;
    }
    char data[100];
    printf("Enter data to append to the file: ");
    getchar();
    fgets(data, sizeof(data), stdin);
    fputs(data, file);
    printf("Data appended successfully.\n");
    fclose(file);
}

int main() {
    char filename[50] = "codtech_task1.txt";
    int choice;

    while (1) {
        printf("\n--- File Handling Menu ---\n");
        printf("1. Create File\n");
        printf("2. Write to File\n");
        printf("3. Read from File\n");
        printf("4. Append to File\n");
        printf("5. Exit\n");
        printf("Enter your choice (1-5): ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                createFile(filename);
                break;
            case 2:
                writeToFile(filename);
                break;
            case 3:
                readFile(filename);
                break;
            case 4:
                appendToFile(filename);
                break;
            case 5:
                return 0;
        }
    }
}
```

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```
        appendToFile(filename);
        break;
    case 5:
        printf("Exiting program.\n");
        exit(0);
    default:
        printf("Invalid choice! Try again.\n");
    }
}

return 0;
}
```