

26. Construct a C program to implement the file management operations.

```
#include <stdio.h>

#include <stdlib.h>

int main() {

    FILE *fp;

    char data[100];

    int choice;

    while (1) {

        printf("\n--- File Management Operations ---\n");

        printf("1. Create & Write\n2. Read\n3. Append\n4. Delete\n5. Exit\n");

        printf("Enter your choice: ");

        scanf("%d", &choice);

        getchar(); // clear newline

        switch (choice) {

            case 1:

                fp = fopen("file.txt", "w");

                if (fp == NULL) {

                    printf("Error creating file!\n");

                    exit(1);

                }

                printf("Enter data to write: ");

                fgets(data, sizeof(data), stdin);

                fputs(data, fp);

                fclose(fp);

                printf("Data written successfully.\n");

                break;
```

case 2:

```
fp = fopen("file.txt", "r");  
if (fp == NULL) {  
    printf("File not found!\n");  
    break;  
}  
  
printf("File content:\n");  
while (fgets(data, sizeof(data), fp))  
    printf("%s", data);  
  
fclose(fp);  
  
break;
```

case 3:

```
fp = fopen("file.txt", "a");  
if (fp == NULL) {  
    printf("File not found!\n");  
    break;  
}  
  
printf("Enter data to append: ");  
fgets(data, sizeof(data), stdin);  
fputs(data, fp);  
fclose(fp);  
  
printf("Data appended successfully.\n");  
  
break;
```

case 4:

```
if (remove("file.txt") == 0)  
    printf("File deleted successfully.\n");
```

```

else
    printf("File not found!\n");

break;

case 5:

    exit(0);

default:

    printf("Invalid choice!\n");

}

}

return 0;

}

```

OUTPUT-

The screenshot displays a code editor on the left and a terminal window on the right. The code in the editor implements a file management system with options to create/write, read, append, delete, and exit. The terminal output shows the program's execution for three different choices: 1 (Create & Write), 2 (Read), and 3 (Append).

```

fp = fopen("file.txt", "r");
if (fp == NULL) {
    printf("File not found!\n");
    break;
}
printf("File content:\n");
while (fgets(data, sizeof(data), fp))
    printf("%s", data);
fclose(fp);
break;
case 3:
    fp = fopen("file.txt", "a");
    if (fp == NULL) {
        printf("File not found!\n");
        break;
    }
    printf("Enter data to append: ");
    fgets(data, sizeof(data), stdin);
    fputs(data, fp);
    fclose(fp);
    printf("Data appended successfully.\n");
    break;
case 4:
    if (remove("file.txt") == 0)
        printf("File deleted successfully.\n");
    else
        printf("File not found!\n");
    break;
case 5:
    exit(0);
default:
    printf("Invalid choice!\n");
}
}
return 0;

```

--- File Management Operations ---
1. Create & Write
2. Read
3. Append
4. Delete
5. Exit
Enter your choice: 1
Enter data to write: operating system
Data written successfully.

--- File Management Operations ---
1. Create & Write
2. Read
3. Append
4. Delete
5. Exit
Enter your choice: 2
File content:
operating system

--- File Management Operations ---
1. Create & Write
2. Read
3. Append
4. Delete
5. Exit
Enter your choice: 3
Enter data to append: with scheduling algorithm
Data appended successfully.