DAY 17

1. Write a program to create a text file and write a string into it.

#include <stdio.h>

int main() {

FILE \*fp = fopen("file1.txt", "w");

if (fp == NULL) {

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

return 1;

}

fprintf(fp, "Hello, this is Day 17 of C practice.");

fclose(fp);

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

return 0;

}

2. Write a program to read contents from a file.

#include <stdio.h>

int main() {

char ch;

FILE \*fp = fopen("file1.txt", "r");

if (fp == NULL) {

printf("File not found.\n");

return 1;

}

while ((ch = fgetc(fp)) != EOF) {

putchar(ch);

}

fclose(fp);

return 0;

}

3. Write a program to copy contents from one file to another.

#include <stdio.h>

int main() {

char ch;

FILE \*src = fopen("file1.txt", "r");

FILE \*dest = fopen("file2.txt", "w");

if (src == NULL || dest == NULL) {

printf("Error opening files.\n");

return 1;

}

while ((ch = fgetc(src)) != EOF) {

fputc(ch, dest);

}

fclose(src);

fclose(dest);

printf("File copied successfully.\n");

return 0;

}

4. Write a program to count the number of characters in a file.

#include <stdio.h>

int main() {

char ch;

int count = 0;

FILE \*fp = fopen("file1.txt", "r");

if (fp == NULL) {

printf("File not found.\n");

return 1;

}

while ((ch = fgetc(fp)) != EOF) {

count++;

}

fclose(fp);

printf("Total characters: %d\n", count);

return 0;

}

5. Write a program to count the number of lines in a file.

#include <stdio.h>

int main() {

char ch;

int lines = 1; // start with 1 for non-empty files

FILE \*fp = fopen("file1.txt", "r");

if (fp == NULL) {

printf("File not found.\n");

return 1;

}

while ((ch = fgetc(fp)) != EOF) {

if (ch == '\n')

lines++;

}

fclose(fp);

printf("Total lines: %d\n", lines);

return 0;

}

6. Write a program to append content to an existing file.

#include <stdio.h>

int main() {

FILE \*fp = fopen("file1.txt", "a");

if (fp == NULL) {

printf("Error opening file.\n");

return 1;

}

fprintf(fp, "\nThis line is appended.");

fclose(fp);

printf("Content appended successfully.\n");

return 0;

}

7. Write a program to display content of a file word by word.

#include <stdio.h>

int main() {

char word[100];

FILE \*fp = fopen("file1.txt", "r");

if (fp == NULL) {

printf("File not found.\n");

return 1;

}

while (fscanf(fp, "%s", word) != EOF) {

printf("%s\n", word);

}

fclose(fp);

return 0;

}

8. Write a program to find the occurrence of a word in a file.

#include <stdio.h>

#include <string.h>

int main() {

char word[100], temp[100];

int count = 0;

FILE \*fp = fopen("file1.txt", "r");

if (fp == NULL) {

printf("File not found.\n");

return 1;

}

printf("Enter word to search: ");

scanf("%s", word);

while (fscanf(fp, "%s", temp) != EOF) {

if (strcmp(word, temp) == 0)

count++;

}

fclose(fp);

printf("'%s' occurred %d times.\n", word, count);

return 0;

}

9. Write a program to remove all spaces from a file content.

#include <stdio.h>

int main() {

char ch;

FILE \*fp1 = fopen("file1.txt", "r");

FILE \*fp2 = fopen("nospace.txt", "w");

if (fp1 == NULL || fp2 == NULL) {

printf("File error.\n");

return 1;

}

while ((ch = fgetc(fp1)) != EOF) {

if (ch != ' ')

fputc(ch, fp2);

}

fclose(fp1);

fclose(fp2);

printf("Spaces removed and saved to 'nospace.txt'.\n");

return 0;

}

10. Write a program to convert the contents of a file to uppercase.

#include <stdio.h>

#include <ctype.h>

int main() {

char ch;

FILE \*fp1 = fopen("file1.txt", "r");

FILE \*fp2 = fopen("upper.txt", "w");

if (fp1 == NULL || fp2 == NULL) {

printf("Error with files.\n");

return 1;

}

while ((ch = fgetc(fp1)) != EOF) {

fputc(toupper(ch), fp2);

}

fclose(fp1);

fclose(fp2);

printf("File converted to uppercase and saved to 'upper.txt'.\n");

return 0;

}