# **File Handling Functions**

- 1. fopen Open File:
  - Description: Opens a file with a specified mode (read, write, append, etc.).
  - Syntax: FILE \*fopen(const char \*filename, const char \*mode);
  - Example:

```
FILE *filePointer; filePointer = fopen("example.txt", "w");
```

- 2. fclose Close File:
  - **Description:** Closes the specified file.
  - Syntax: int fclose(FILE \*stream);
  - Example:

```
fclose(filePointer);
```

- 3. fprintf Print to File:
  - **Description:** Writes formatted output to the specified file.
  - Syntax: int fprintf(FILE \*stream, const char \*format, ...);
  - Example:

```
fprintf(filePointer, "Hello, %s!\n", "World");
```

- 4. fscanf Read from File:
  - **Description:** Reads formatted input from the specified file.
  - Syntax: int fscanf(FILE \*stream, const char \*format, ...);
  - Example:

```
char buffer[50];
fscanf(filePointer, "%s", buffer);
```

- 5. fgetc Get Character from File:
  - **Description:** Reads a character from the specified file.
  - Syntax: int fgetc(FILE \*stream);
  - Example:

```
char ch = fgetc(filePointer);
```

6. fputc - Put Character to File:

- **Description:** Writes a character to the specified file.
- Syntax: int fputc(int character, FILE \*stream);
- Example:

```
fputc('A', filePointer);
```

## 7. fgets - Get String from File:

- **Description:** Reads a line of text from the specified file.
- Syntax: char \*fgets(char \*str, int n, FILE \*stream);
- Example:

```
char buffer[100];
fgets(buffer, sizeof(buffer), filePointer);
```

# 8. fputs - Put String to File:

- **Description:** Writes a string to the specified file.
- Syntax: int fputs(const char \*str, FILE \*stream);
- Example:

```
fputs("This is a sample string.", filePointer);
```

#### 9. rewind - Rewind File Position:

- **Description:** Sets the file position indicator to the beginning of the specified file.
- Syntax: void rewind(FILE \*stream);
- Example:

```
rewind(filePointer);
```

#### 10. feof - Test End-of-File:

- **Description:** Tests the end-of-file indicator for the specified file.
- Syntax: int feof(FILE \*stream);
- Example:

```
if (feof(filePointer)) { // End of file reached }
```

# 11. fseek - Set File Position:

- **Description:** Sets the file position indicator for the specified file.
- Syntax: int fseek(FILE \*stream, long offset, int origin);
- Example:

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fseek(filePointer, 0, SEEK\_SET); // Move to the beginning of the file

## 12. ftell - Get File Position:

- **Description:** Returns the current file position for the specified file.
- Syntax: long ftell(FILE \*stream);
- Example:

```
long position = ftell(filePointer);
```

# 13. rewind - Rewind File Position:

- **Description:** Sets the file position indicator to the beginning of the specified file.
- Syntax: void rewind(FILE \*stream);
- Example:

```
rewind(filePointer);
```

## 14. remove - Remove File:

- **Description:** Deletes the specified file.
- Syntax: int remove(const char \*filename);
- Example:

remove("example.txt");