

The image shows a C program in a code editor and its execution in a terminal window. The code is a simple program that attempts to open a file named "read.txt". It includes `<stdio.h>` and defines a `main` function. Inside `main`, it declares a `FILE *fp` and attempts to open "read.txt" in read mode using `fopen`. If the file is not found, it prints "Error in opening file\n" and returns 0. If the file is opened successfully, it prints the current file position using `ftell`, then enters a loop to read the file character by character using `fread`. For each character read, it prints the character and the current file position. After the loop, it rewinds the file, prints the position again, and then closes the file with `fclose` before returning 0.

```
1 #include<stdio.h>
2
3 int main()
4 {
5     FILE *fp;
6     fp = fopen("read.txt","r");
7     if(!fp)
8     {
9         printf("Error in opening file\n");
10        return 0;
11    }
12
13    printf("Position of the pointer : %ld\n",ftell(fp));
14
15    char ch;
16    while(fread(&ch,sizeof(ch),1,fp)==1)
17    {
18        printf("%c",ch);
19    }
20    printf("Position of the pointer : %ld\n",ftell(fp));
21
22    rewind(fp);
23    printf("Position of the pointer : %ld\n",ftell(fp));
24
25    fclose(fp);
26    return 0;
27 }
```

The terminal window shows the output of the program. It displays "Error in opening file" followed by a separator line. Below the separator, it states "Process exited after 0.0556 seconds with return value 0" and "Press any key to continue . . .".

```
C:\Users\kalya\OneDrive\Desktop\7.ipc sm.exe
Error in opening file
-----
Process exited after 0.0556 seconds with return value 0
Press any key to continue . . .
```

13. Develop a C program for implementing random access file for processing the employee details.