1.Implementation of VFS Program

Creating new files in the file system

```
--------------------------------------------------------------------------------
************************* Virtual File System ******************************
--------------------------------------------------------------------------------
Enter file system name
OSproject


Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
5
Enter the name of new file
Monday
Enter the content of the file
First day of the week


Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
5
Enter the name of new file
Sunday
Enter the content of the file
It is a holiday


Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
5
Enter the name of new file
Friday
Enter the content of the file
Last working day of the week
```

List all the files in file system

```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
1
Monday
Sunday
Friday
```

Display file content

```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
2
Enter file name
Sunday
Sunday
It is a holiday

Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
2
Enter file name
Tuesday
Tuesday
File not found!
```

Search for a file in the file system

```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
3
Enter file name
Friday
File found
File name:Friday

Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
3
Enter file name
Saturday
File not found!
```

Search for a Key word in content of file

```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
4
Enter the file name
Monday
Enter the keyword to be searched
week

Keyword Found!
Position of keyword:    18
```

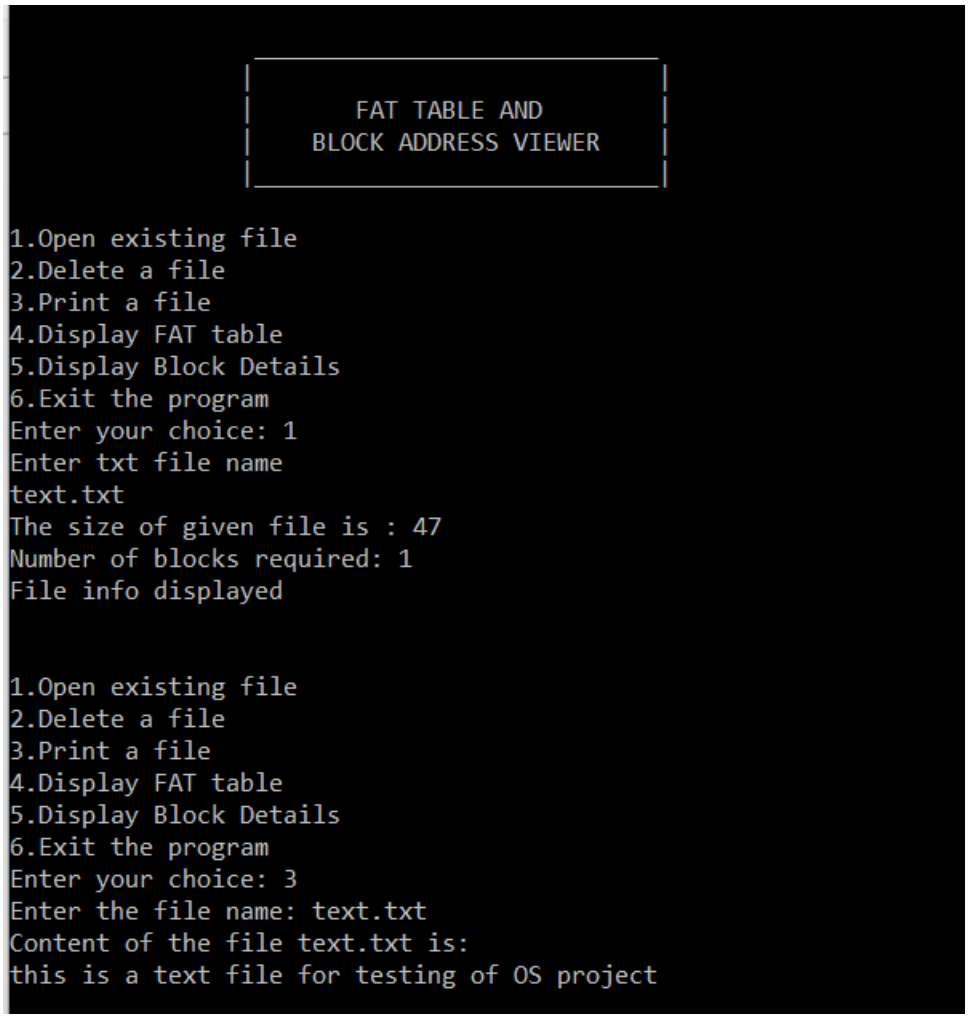
```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
4
Enter the file name
Monday
Enter the keyword to be searched
working

Keyword not Found!
```

Delete a file from the file system

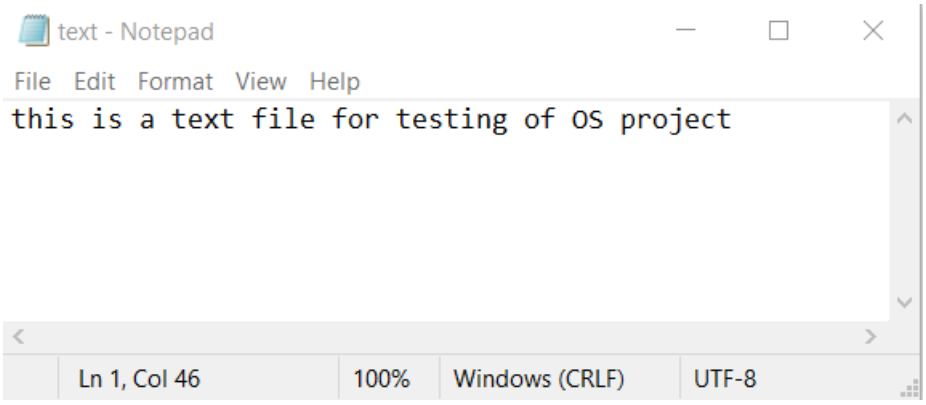
```
Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
6
Enter the name of the file to be deleted
Friday

File deleted!


Enter your choice:
1. List files in the file system
2. Show file content
3. Search a file
4. Search for a keyword in a file
5. Create new file
6. Delete a file
1
Monday
Sunday
```

2.Implementation of FAT Table and Block Address

Opening a existing text file and printing file content



Text file opened in Windows using Notepad



Display of File Allocation Table(FAT Table)

```
1.Open existing file
2.Delete a file
3.Print a file
4.Display FAT table
5.Display Block Details
6.Exit the program
Enter your choice: 4
File name size address
text.txt   47   13309024
```

Display of Block Address

```
1.Open existing file
2.Delete a file
3.Print a file
4.Display FAT table
5.Display Block Details
6.Exit the program
Enter your choice: 5
 Block address empty/free
1. 4230080 - 1
2. 4230130 - 0
3. 4230180 - 0
4. 4230230 - 0
5. 4230280 - 0
6. 4230330 - 0
7. 4230380 - 0
8. 4230430 - 0
9. 4230480 - 0
10. 4230530 - 0
```