**Sprint Plan:**

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| --- | --- |
| **15 Days** | **5 Analysis** |
|  | **5 Writing Code** |
|  | **3 Testing** |
|  | **2 Document Creation** |

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| --- | --- | --- | --- | --- |
| **Sprint No.** | **Tasks** | **Start Date** | **End Date** | **Status** |
| **01** | Analysis | 02/01/2023 | 06/01/2023 | Completed |
|  | Writing Code | 09/01/2023 | 13/01/2023 | Completed |
|  | Testing | 16/01/2023 | 18/01/2023 | Completed |
|  | Document Creation | 19/01/2023 | 20/01/2023 | Completed |

**Flow Chart:**

**STOP**

List of the Existing Files should be displayed in Ascending Order

It should display as “File is Deleted’

Created file should be Displayed

Delete File

View list in Ascending Order

Create File

Display 3 Options

**START**

**ALGORITHM:**

**Step 1:** To create a file in Directory, you can use the File class and its constructor.

**public static void createFile() throws IOException**

**Step 2:** To create a file in Java, you can use the File class and its constructor.

**File file=new File(finalpath);**

**boolean res=file.createNewFile();**

**Step 3:** To delete a file in Java, you can use the File class and its delete() method.

**file.delete();**

**System.out.println("file gets deleted");**

**Step 4:** To sort an array in ascending order in Java, you can use the Below method.

**System.out.println("the list of files in asscending order in the " + path + "is");**

**Step 4:** To search for a file in Java, you can use the File class and its exists() method.

**File file=new File(finalpath);**

**boolean res=file.createNewFile();**

**if(res!=true) {**

**System.out.println("file is not created");**

**}**

**else {**

**System.out.println("file is created ");**

**}**

**Step 5:** A switch case algorithm in Java can be implemented using a switch statement. For example:

**switch(choose){**

**case 1: createFile();**

**isyes=0;break;**

**case 2:deleteFile();isyes=0; break;**

**case 3: viewInaAccendingOrder();isyes=0;break;**

**default: System.out.println(" Please choose a valid option "); isyes=1; break;**

**}**

**if(isyes!=1){**

**System.out.println("Do you want to continue \n\t1.yes \n\t2.no");**

**switch (sc.nextInt()){**

**case 1:isyes=1;break;**

**case 2:isyes=0;break;**

**default:isyes=0;**

**}**

**}**

**Code:**

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

//create a file in a directory

public class FileEx {

public static void createFile() throws IOException {

String path="D:\\caltech\\";

Scanner sc=new Scanner(System.in);

System.out.println("enter the file name");

String filename=sc.next();

String finalpath=path+filename;

System.out.println(finalpath);

//create a file

File file=new File(finalpath);

boolean res=file.createNewFile();

if(res!=true) {

System.out.println("file is not created");

}

else {

System.out.println("file is created ");

}

}

public static void deleteFile(){

String path="D:\\caltech\\";

Scanner sc=new Scanner(System.in);

System.out.println("enter the file name");

String filename=sc.next();

String finalpath=path+filename;

System.out.println(finalpath);

File file=new File(finalpath);

//delete operation

file.delete();

System.out.println("file gets deleted");

}

//display the files in an ascending order

public static void viewInaAccendingOrder() {

String path = "D:\\caltech\\";

File file = new File(path); // you are creating a new file here ... the way of getting current file list is wrong ....

//display operation

File filename[] = file.listFiles();

//for-each

System.out.println("the list of files in asscending order in the " + path + "is");

if(filename !=null && filename.length>0){

for (File ff : filename) {

System.out.println(ff.getName());

}}else{

System.out.println(" File list may be null or there is no files in current location ");

}

}

public static void main(String[] args) throws IOException {

int isyes;

do {

System.out.println(" HELLO USER PLEASE Choose an option below \n\t 1. createFile \n\t 2. Deletefile \n\t 3. View in accending order ");

Scanner sc=new Scanner(System.in);

int choose= sc.nextInt();

switch(choose){

case 1: createFile();

isyes=0;break;

case 2:deleteFile();isyes=0; break;

case 3: viewInaAccendingOrder();isyes=0;break;

default: System.out.println(" Please choose a valid option "); isyes=1; break;

}

if(isyes!=1){

System.out.println("Do you want to continue \n\t1.yes \n\t2.no");

switch (sc.nextInt()){

case 1:isyes=1;break;

case 2:isyes=0;break;

default:isyes=0;

}

}

}while (isyes==1);

}

}

**TEST CASE:**

1. Create a file in directory, File created in a directory Successfully.
2. Initiate a file creation, File created Successfully.
3. Use Delete operations to delete a file. File Deleted Successfully.
4. Trying to view the list of the files in Ascending order, Able to get the list of files in Ascending order.