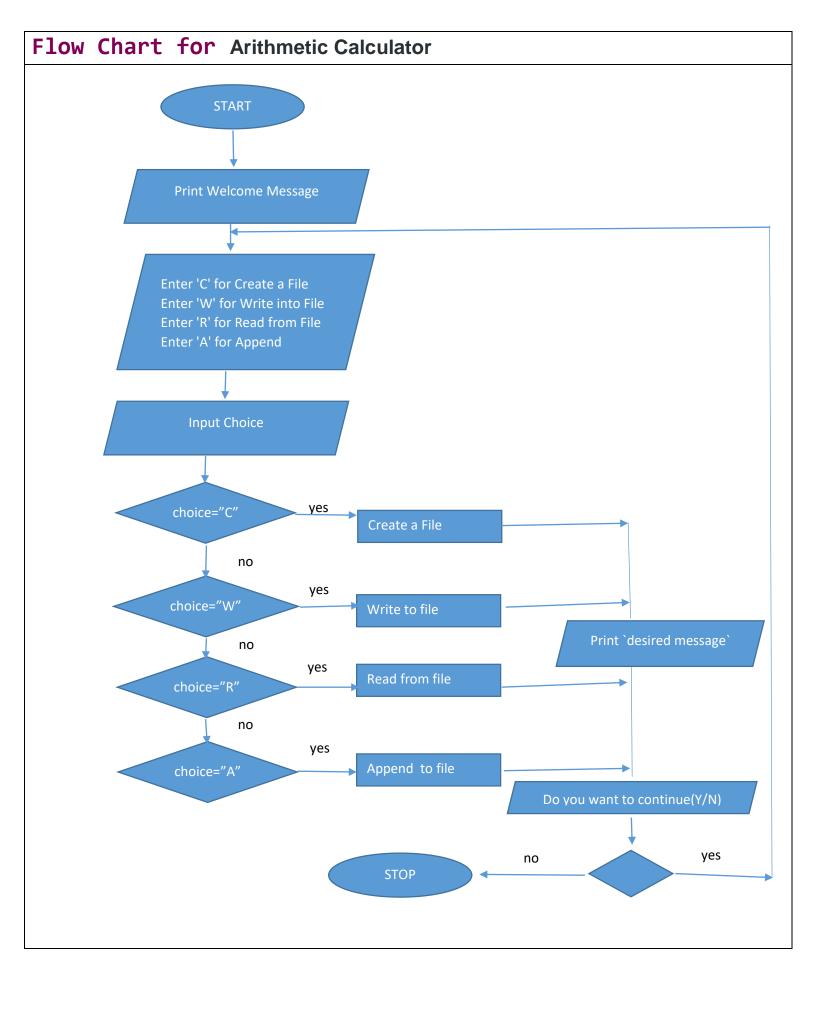
Project Name: File Handling

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Objective : write a Java code to read, write, and append to a file.

Algorithm:

Step 1: Begin Step 2: Print Welcome Message Step 3: Print Menu (Enter 'C' for Create a File Enter 'W' for Write into File Enter 'R' for Read from File Enter 'A' for Append content to File Enter 'X' for Quit) Step 4: Enter your choice Step 5: If the user enters C/W/R/A /X then follow the below steps else flow goes to default case & exit the program Step 6: Switch(operator) 1. case "C": Print "Enter New File Name:" Input New File name Call create file function break: 2. case "W": Print "Enter File Name to write:" Input New File name Call write to file function break: 3. case "R": Print "Enter File Name for read:"; Input New File name Call read From File function break: 4. case "A": Print "Enter File Name for append content:" Input New File name Call append to file function break; 5. case "X": Print "Thank you message" Exit the application break:



FileHandling.java

```
package com;
import java.util.Scanner;
public class FileHandling {
      public static void main(String args[]) {
            Scanner sc=new Scanner(System.in);
            String fileName ="";
             FileOperations op = new FileOperations();
        System.out.println("-----");
       while(true) {
                    System.out.println("Choose your Option");
                     System.out.println("Enter 'C' for Creat a File");
                    System.out.println("Enter 'W' for Write into File");
                     System.out.println("Enter 'R' for Read from File");
                     System.out.println("Enter 'A' for Append content to File");
                     System.out.println("Enter 'D' for Delete a File");
                     System.out.println("Enter 'N' for Rename a File");
                     System.out.println("Enter 'X' for Quit");
                    String option = sc.nextLine().trim();
                     switch(option)
                    {
                       case "C":
                            System.out.println("Enter New File Name :");
                            fileName = sc.nextLine();
                            op.createFile(fileName);
                            break:
                       case "W" :
                            System.out.println("Enter File Name to write :");
                            fileName = sc.nextLine();
                            op.writeToFile(fileName);
                            break:
                       case "R":
                            System.out.println("Enter File Name for read :");
                            fileName = sc.nextLine();
                            op.readFromFile(fileName);
                            break;
                       case "A" :
                            System.out.println("Enter File Name for append content :");
                            fileName = sc.nextLine();
                            op.appendToFile(fileName);
                            break;
                       case "D":
                            System.out.println("Enter File Name for delete :");
                            fileName = sc.nextLine();
                            op.deleteFile(fileName);
                            break:
                       case "N":
                            System.out.println("Enter Old File Name :");
                            String OldfileName = sc.nextLine();
                            System.out.println("Enter New File Name :");
                            String NewfileName = sc.nextLine();
                            op.renameFile(OldfileName, NewfileName);
                            break:
                       case "X":
```

FileActions.java

```
public interface FileActions {
    public void createFile(String filename);
    public void writeToFile(String filename);
    public void appendToFile(String filename);
    public void readFromFile(String filename);
    public void deleteFile(String filename);
    public void renameFile(String filename);
}
```

FileOperations.java

```
package com;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IoException;
import java.io.IoException;
import java.io.InputStreamReader;

public class FileOperations implements FileActions {

    public void createFile(String filename)
    {

        File myFile = new File(filename);
        try{
            if(!(myFile.exists())){ // checking file exist or not myFile.createNewFile(); // Creating new file System.out.println("New File created....");
        }else{
```

```
System.out.println("File already exisit....");
           }catch (IOException e) {
               e.printStackTrace();
   }
  public void writeToFile(String filename)
            String source = "";
            FileWriter fWrite = null;
            BufferedReader bf=new BufferedReader(new InputStreamReader(System.in));
            File myFile = new File(filename);
            try{
                if(!(myFile.exists())){
                    myFile.createNewFile();
                fWrite = new FileWriter(myFile,false);
                System.out.println("Write 'stop' when you finish writing file ");
                while(!(source=bf.readLine()).equalsIgnoreCase("stop")){
                     fWrite.write(source + System.getProperty("line.separator"));
              }
                System.out.println("File write complete....");
            }catch (IOException e) {
                e.printStackTrace();
            }finally{
                if(fWrite != null)
                    try { fWrite.close(); } catch (IOException e) { e.printStackTrace(); }
            }
   public void appendToFile(String filename)
            String source = "";
            FileWriter fWrite = null;
            BufferedReader bf=new BufferedReader(new InputStreamReader(System.in));
            File myFile = new File(filename);
            try{
                if(!(myFile.exists())){
                    myFile.createNewFile();
                fWrite = new FileWriter(myFile,true); // true for appending content to the existing
file
                System.out.println("Write 'stop' when you finish appending file ");
              while(!(source=bf.readLine()).equalsIgnoreCase("stop")){
               fWrite.append(source+ System.getProperty("line.separator"));
              }
                System.out.println("File write complete....");
            }catch (IOException e) {
                e.printStackTrace();
            }finally{
                if(fWrite != null)
```

```
try { fWrite.close(); } catch (IOException e) { e.printStackTrace(); }
            }
   }
   public void readFromFile(String filename)
         BufferedReader br = null;
       try{
           FileReader myFile = new FileReader(filename);
           br = new BufferedReader(myFile);
           String line = null;
           while ((line = br.readLine()) != null) {
               System.out.println(line);
       }catch (IOException e) {
           e.printStackTrace();
       }finally{
           if(br != null)
               try{ br.close(); }catch(IOException e){e.printStackTrace();}
       }
   public void deleteFile(String filename)
         try{
           File myFile = new File(filename);
           if(myFile.exists()){
               myFile.delete();
               System.out.println("File deleted successfully....");
           }else{
               System.out.println("File NOT Exisit....");
       }catch (Exception e) {
           e.printStackTrace();
       }
   }
   public void renameFile(String oldFileName,String newFileName) {
         File oriFile = new File(oldFileName);
            File newFile = new File(newFileName);
             if(oriFile.exists()){
                 oriFile.renameTo(newFile);
                 System.out.println("File rename completed....");
             }else{
                System.out.println("Original file not exist for renaming....");
            }
   }
}
```

Project File Structure:

- FileHandling
 - > March JRE System Library [JavaSE-1.8]
 - - →

 del com
 - > If FileActions.java
 - > II FileHandling.java
 - > <a> FileOperations.java
 - NewContact.txt

Outputs:

```
-----FILE HANDLING IN JAVA-----
Choose your Option
Enter 'C' for Creat a File
Enter 'W' for Write into File
Enter 'R' for Read from File
Enter 'A' for Append content to
Enter 'D' for Delete a File
Enter 'N' for Rename a File
Enter 'X' for Quit
Enter File Name to write :
Contact.txt
Write 'stop' when you finish writing file
I am Bibhu
My Name is Bibhu
Hi THis is Bibhu
stop
File write complete.....
Do you want to continue(Y/N) ?
Choose your Option
Enter 'C' for Creat a File
Enter 'W' for Write into File
Enter 'R' for Read from File
Enter 'A' for Append content to File
Enter 'D' for Delete a File
Enter 'N' for Rename a File
Enter 'X' for Quit
Enter File Name for read :
Contact.txt
I am Bibhu
My Name is Bibhu
Hi THis is Bibhu
Do you want to continue(Y/N) ?
```