Virtual Key for Your Repositories

1. Package main

```
package main;
import java.io.IOException;
import java.util.Scanner;
import adding.AddFile;
import deleting.DeleteFile;
import reading.ReadFile;
import displaying.DisplayFile;
public class MainMenu {
	public static void main(String[] args )
	{
		@SuppressWarnings("resource")
		Scanner sc=new Scanner (System.in);
		System.out.println("-----------------------------------------------");
		System.out.println("**** Welcome to the Virtual key ****");
		System.out.println("    Developed By: Baljeet Singh");
		System.out.println("-----------------------------------------------");
		System.out.println(" ");
		System.out.println("Choose the Below option Number: ");
		System.out.println("1. Display all the Files");
		System.out.println("2. Business-level operations: (File Manipulation)");
		System.out.println("3. Exit");
		System.out.println(" ");

		int operation = sc.nextInt();

		switch(operation)
		{
```

```
case 1:
{
        try
        {
                DisplayFile obj = new DisplayFile();
                obj.Display();
                main(null);

        }
        catch (IOException e)
        {
                e.printStackTrace();
        }
        break;
}
case 2:
{
        System.out.println(" ");
        System.out.println("-------------------------------------------------");
        System.out.println("Choose the Below option Number: \n");
        System.out.println("1. Add Files");
        System.out.println("2. Delete a File");
        System.out.println("3. Search a File");
        System.out.println("4. Return to Main Menu");
        int choice=sc.nextInt();

        switch(choice)
        {
        case 1:
```

```
{
        try
        {
                AddFile obj = new AddFile();
                obj.Add();
        }
        catch (IOException e)
        {
                e.printStackTrace();
        }
        main(null);
        System.out.println();
        break;
}
case 2:
{
        try
        {
                DeleteFile obj = new DeleteFile();
                obj.Delete();

        }
        catch (IOException e)
        {
                e.printStackTrace();
        }
        main(null);
        System.out.println();
        break;
```

```
            }
            case 3:
            {
                try
                {
                    ReadFile obj = new ReadFile();
                    obj.read();
                }
                catch (IOException e)
                {
                    System.out.println("file not found ");
                    //e.printStackTrace();
                }
                main(null);
                System.out.println();
                break;
            }
            case 4:
            {
                main(null);
            }
            }
        }
        case 3:
        {
            System.out.println("Thank you for using this app. Have a NICE DAY.");
        }
        }
}
```

```
}
```

2. Package adding

```
package adding;
import java.io.File;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.Scanner;
public class AddFile {
        public void Add()  throws IOException
        {
                //Created a directory to store all the txt files at one place
                String path= "D:\\simplilearn\\phase1project\\";
                File theDir = new File(path);

                //if directory dosent exist it will create directory else move forward
                if (!theDir.exists())
                {
                   theDir.mkdirs();
                }
                @SuppressWarnings("resource")
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter number of files you want to add");
                int num = sc.nextInt();

                //calling the creating method x number of time.
                for(int i=0; i<num; i++)
                {
```

```
                creating();
        }
}

static void creating() throws IOException
{
        //the default path to save txt files
        String path= "D:\\simplilearn\\phase1project\\";
        @SuppressWarnings("resource")
        Scanner sc = new Scanner(System.in);
        System.out.println("enter file name(abc.txt).");
        String filename = sc.nextLine();
        //adding path and file name
        String FinalPath = path+filename;
        //opening file with specified location
        FileOutputStream out= new FileOutputStream(FinalPath);
        //calling userData method to get data of the user.
        System.out.println("Write something.");

        String str = sc.nextLine();
        String input = str;
        byte array[]=  input.getBytes();
        //writing data to txt file
        out.write(array);
        System.out.println("Data Written Successfully");
        //closing the file
        out.close();
}
```

}

3. Package deleting

```
package deleting;
import java.io.File;
import java.io.IOException;
import java.util.Scanner;
public class DeleteFile {
	public void Delete()  throws IOException
	{
		@SuppressWarnings("resource")
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the name of the file (abc.txt)");
		String fileName = sc.nextLine();
		File Delfile = new File("D:\\simplilearn\\phase1project\\"+fileName);
		if(Delfile.delete())
		{
			System.out.println("File "+fileName+" deleted successfully. \n");
		}
		else
		{
			System.out.println("Failed, File not available.");
		}


	}
}
```

4. Package displaying

```
package displaying;
import java.io.File;
import java.io.IOException;
import java.util.Arrays;
public class DisplayFile {
	public void Display() throws IOException
	{
		File path = new File("D:\\simplilearn\\phase1project\\");
	    //List of all files and directories
	    File contentsArr[] = path.listFiles();
	    Arrays.sort(contentsArr);
	    if(contentsArr.length<=0)
	    {
	        System.out.println("Directory is empty");
	    }
	    else
	    {
	        System.out.println("---------- List of all the Files ----------\n");
	        System.out.println("Location -- "+path+"\n");

	        for(int i=0; i<contentsArr.length; i++)
	        {
	            System.out.println(i+1+". "+contentsArr[i].getName());
	            System.out.println();
	        }
	    }
	}
```

```
}
```

5. Package reading

```
package reading;
import java.io.FileInputStream;
import java.io.IOException;
import java.util.Scanner;
public class ReadFile
{
	public void read() throws IOException
	{
		@SuppressWarnings("resource")
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the name of the file you want to delete (abc.txt)");
		String fileName = sc.nextLine();
		//getting location of file user want to read
		FileInputStream stream= new
FileInputStream("D:\\simplilearn\\phase1project\\"+fileName);
		int data;
		//reading the whole text file and output the text.
		while((data=stream.read())!=-1)
		{

			System.out.print((char)data);
		}
		System.out.println("\n--- End of file ---\n");
	}

}
```