

Object Oriented Programming Lab 8

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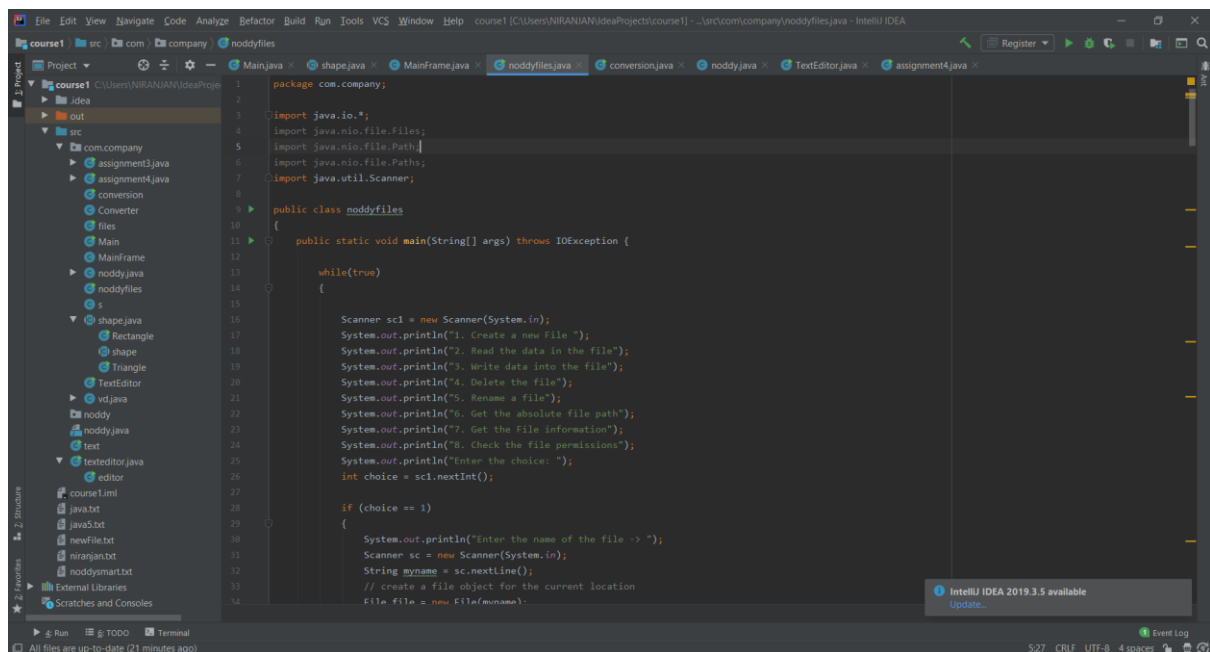
ME-A Batch 3

Problem Statement ->

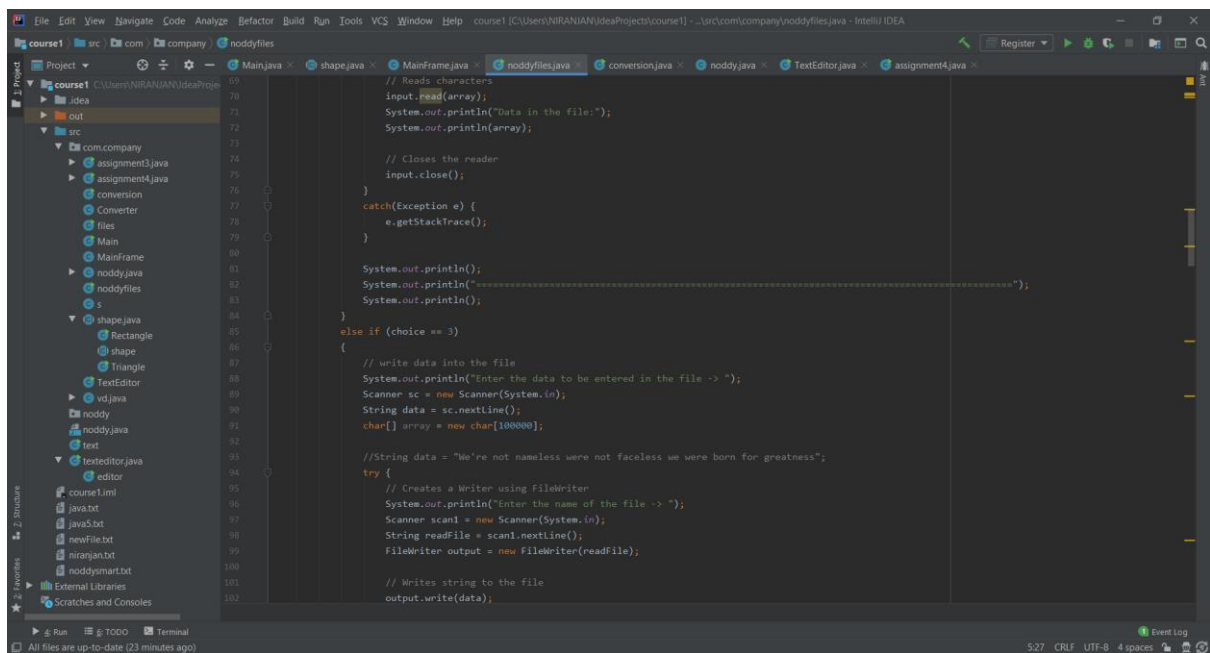
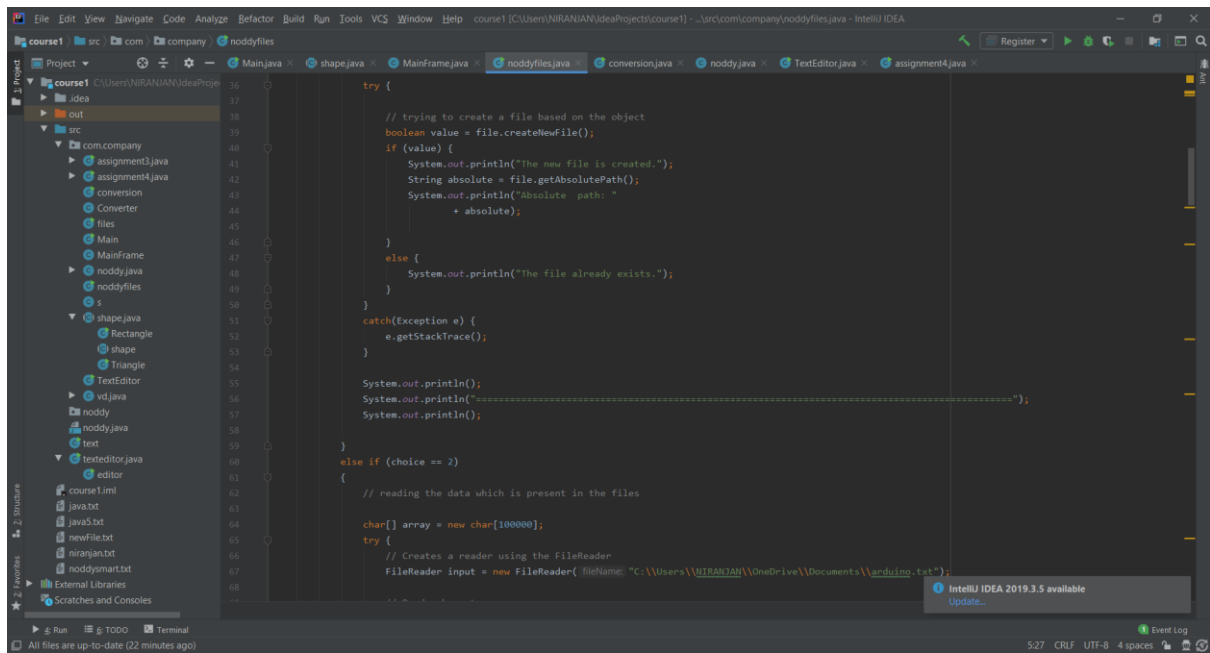
Write a Java program to carry out the following operations on a file ->

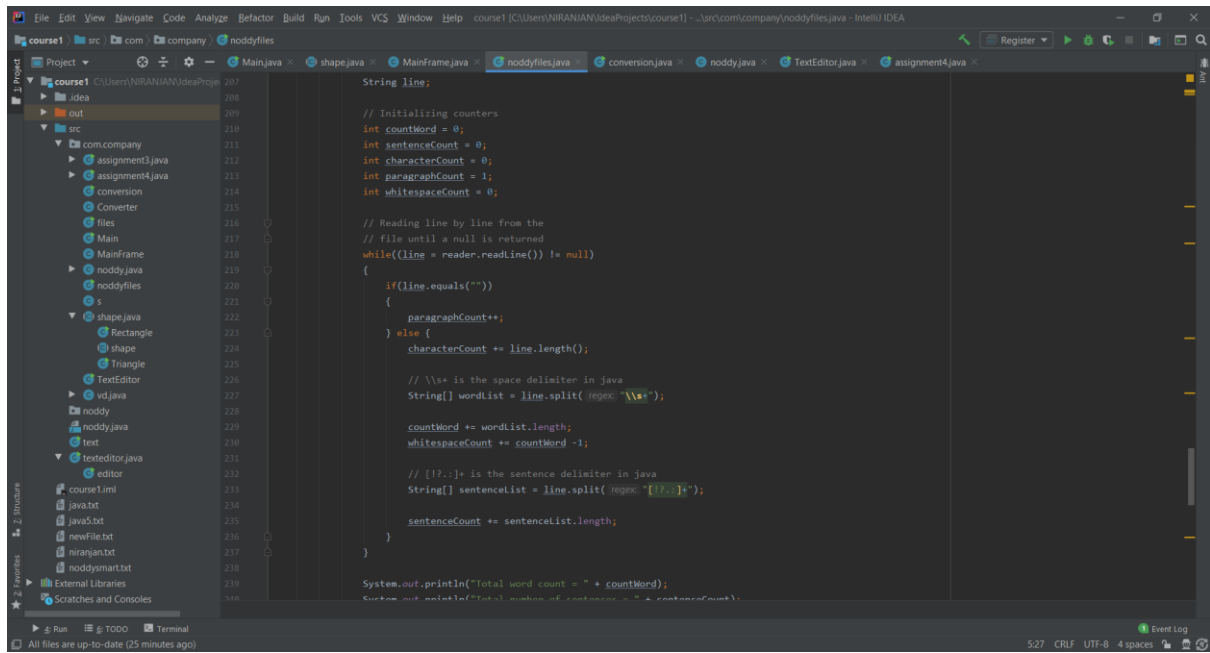
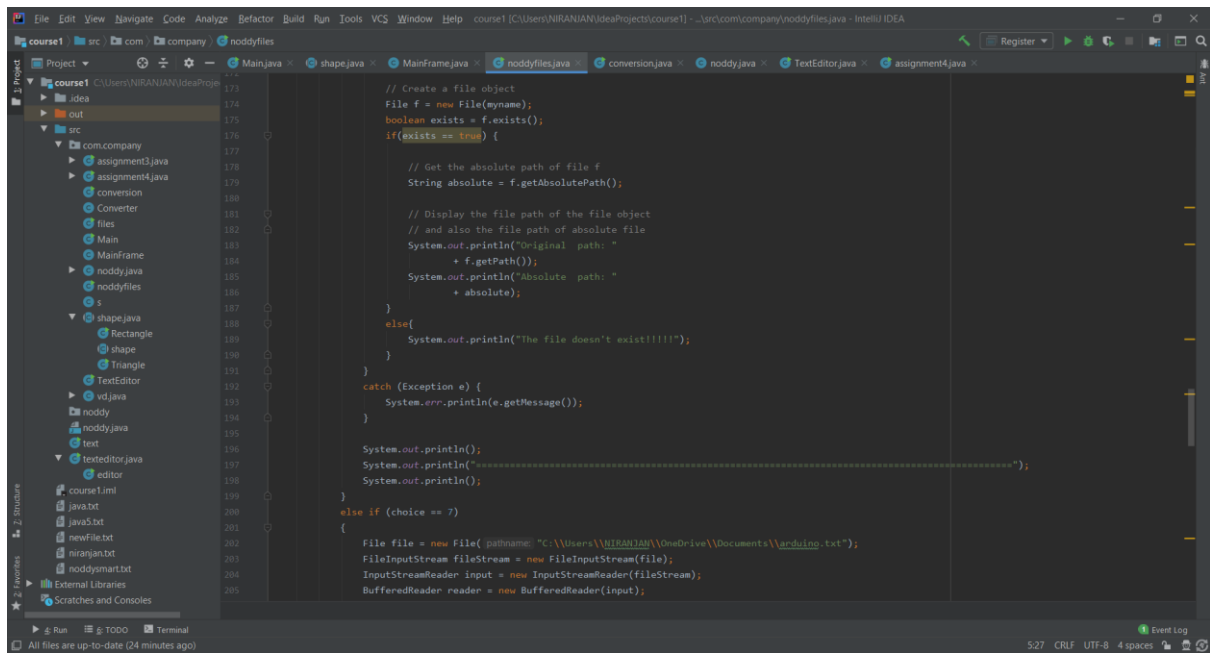
1. Create a new file.
2. Read the data from the file.
3. Write data into file.
4. Delete the file.
5. Rename the file.
6. Get the absolute file path.
7. Get the contents of the file.
8. Get the file permissions.

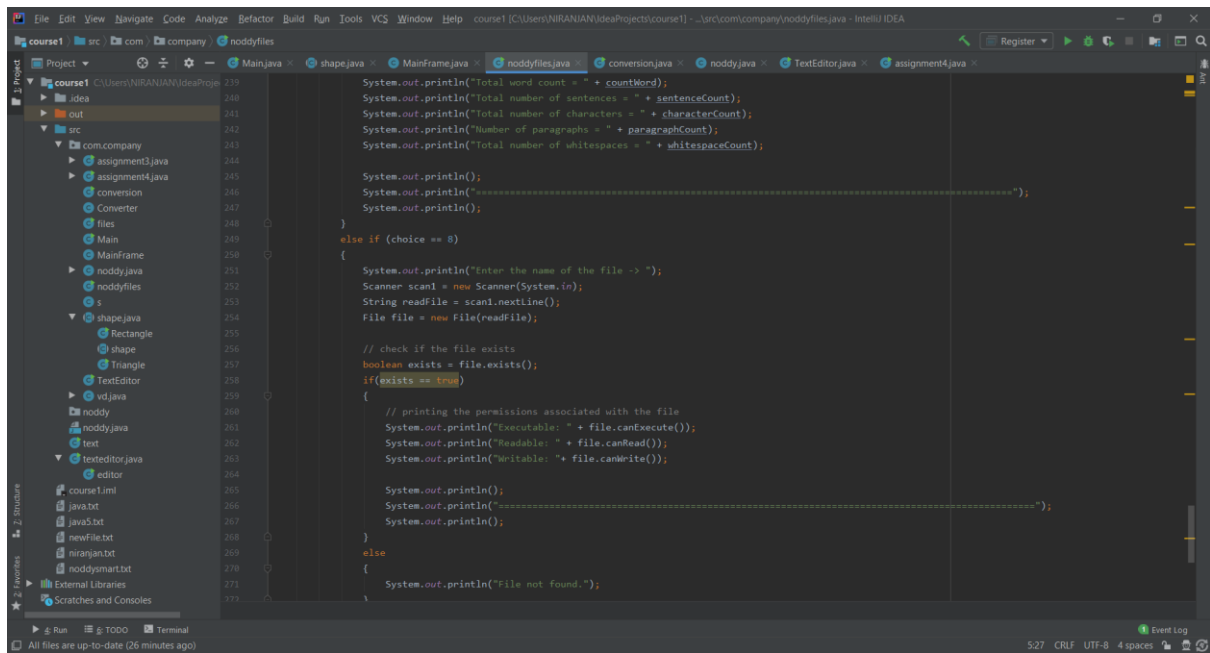
Code ->



```
1 package com.company;
2
3 import java.io.*;
4 import java.nio.file.Files;
5 import java.nio.file.Path;
6 import java.nio.file.Paths;
7 import java.util.Scanner;
8
9 public class noddfiles
10 {
11     public static void main(String[] args) throws IOException {
12
13         while(true)
14         {
15
16             Scanner sc1 = new Scanner(System.in);
17             System.out.println("1. Create a new file ");
18             System.out.println("2. Read the data in the file");
19             System.out.println("3. Write data into the file");
20             System.out.println("4. Delete the file");
21             System.out.println("5. Rename a file");
22             System.out.println("6. Get the absolute file path");
23             System.out.println("7. Get the file information");
24             System.out.println("8. Check the file permissions");
25             System.out.println("Enter the choice: ");
26             int choice = sc1.nextInt();
27
28             if (choice == 1)
29             {
30                 System.out.println("Enter the name of the file -> ");
31                 Scanner sc = new Scanner(System.in);
32                 String myname = sc.nextLine();
33                 // create a file object for the current location
34                 File file = new File(myname);
```





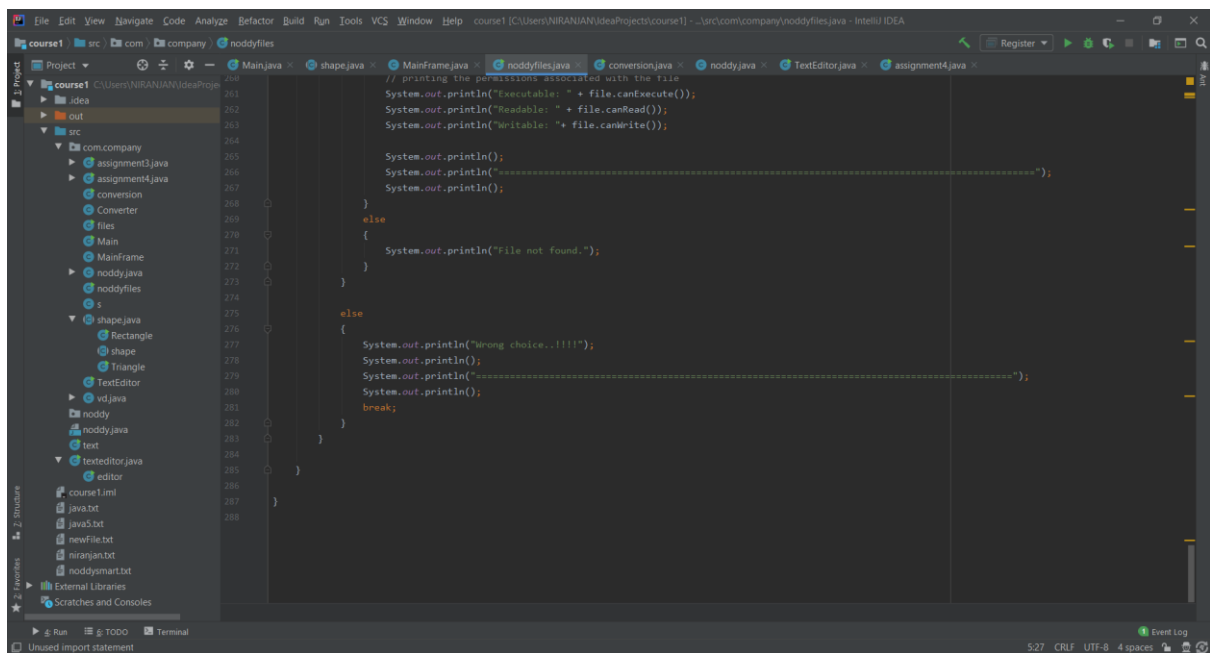


```
System.out.println("Total word count = " + countWord);
System.out.println("Total number of sentences = " + sentenceCount);
System.out.println("Total number of characters = " + characterCount);
System.out.println("Number of paragraphs = " + paragraphCount);
System.out.println("Total number of whitespaces = " + whitespaceCount);

System.out.println();
System.out.println("=====");
}
else if (choice == 6)
{
    System.out.println("Enter the name of the file -> ");
    Scanner scan1 = new Scanner(System.in);
    String readfile = scan1.nextLine();
    File file = new File(readfile);

    // check if the file exists
    boolean exists = file.exists();
    if (exists == true)
    {
        // printing the permissions associated with the file
        System.out.println("Executable: " + file.canExecute());
        System.out.println("Readable: " + file.canRead());
        System.out.println("Writable: " + file.canWrite());

        System.out.println();
        System.out.println("=====");
    }
    else
    {
        System.out.println("File not found.");
    }
}
```



```
System.out.println("Executable: " + file.canExecute());
System.out.println("Readable: " + file.canRead());
System.out.println("Writable: " + file.canWrite());

System.out.println();
System.out.println("=====");
}
else
{
    System.out.println("File not found.");
}
}
else
{
    System.out.println("Wrong choice..!!!!");
    System.out.println();
    System.out.println("=====");
    break;
}
}
}
```

Output of the Following Program ->

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help course1 [C:\Users\NIRANJAN\IdeaProjects\course1] - ..src\com\company\noddyfiles.java - IntelliJ IDEA
Project src com company noddyfiles
Main.java shape.java MainFrame.java noddyfiles.java conversion.java noddy.java TextEditor.java assignment4.java
Run: noddyfiles
"C:\Program Files\Java\jdk-11.0.6\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.1\lib\idea_rt.jar=53584:C:\Program Files\JetBrains\IntelliJ IDEA Commun
1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the name of the file ->
assignment files.txt
The new file is created.
Absolute path: C:\Users\NIRANJAN\IdeaProjects\course1\assignment files.txt

=====

1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Data in the file:
Working on building a wifi controlling module for controlling a servo motor through an arduino uno device

the basic steps and procedures required for the following process are:

Run Event Log
All files are up-to-date (3 minutes ago) 164:1 CRLF UTF-8 4 spaces
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help course1 [C:\Users\NIRANJAN\IdeaProjects\course1] - ..src\com\company\noddyfiles.java - IntelliJ IDEA
Project src com company noddyfiles
Main.java shape.java MainFrame.java noddyfiles.java conversion.java noddy.java TextEditor.java assignment4.java
Run: noddyfiles
Enter the choice:
1
Data in the file:
Working on building a wifi controlling module for controlling a servo motor through an arduino uno device

the basic steps and procedures required for the following process are:

1. Defining the servo motor
2. Defining the wifi module and setting the baud rate for proper connection
3. Creating an html web page for accessing the wifi module through its ip adress and password
4. Defining an angle to the servo motor through input if the data has been passed on to the wifi module
5. Defining the pins on which the rx and tx of the wifi module has to be fitted on and the pin to which the signal port of the servo motor has to be connected

=====

1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the data to be entered in the file ->
1 new servo motor
Enter the name of the file ->
assignment files.txt
Data is written to the file.

=====

Run Event Log
All files are up-to-date (4 minutes ago) 164:1 CRLF UTF-8 4 spaces
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help course1 [C:\Users\NIRANJAN\IdeaProjects\course1] - IntelliJ IDEA
course1 src com company nodyfiles
Project Project Main.java shape.java MainFrame.java nodyfiles.java conversion.java nody.java TextEditor.java assignment4.java
Run nodyfiles
1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the name of the file ->
java2.txt
The File is deleted.

=====

1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the name of the file to be renamed ->
java.txt
Enter the new name of the file ->
java2.txt
Renamed successfully

Run TODO Terminal
All files are up-to-date (5 minutes ago) 164:1 CRLF UTF-8 4 spaces Event Log
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help course1 [C:\Users\NIRANJAN\IdeaProjects\course1] - IntelliJ IDEA
course1 src com company nodyfiles
Project Project Main.java shape.java MainFrame.java nodyfiles.java conversion.java nody.java TextEditor.java assignment4.java
Run nodyfiles
1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the name of the file ->
java2.txt
Original path: java2.txt
Absolute path: C:\Users\NIRANJAN\IdeaProjects\course1\java2.txt

=====

1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Total word count = 119
Total number of sentences = 12
Total number of characters = 632
Number of paragraphs = 3
Total number of whitespaces = 383

Run TODO Terminal
All files are up-to-date (5 minutes ago) 164:1 CRLF UTF-8 4 spaces Event Log
```

```
1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
1
Enter the name of the file ->
assignment4.txt
Executable: true
Readable: true
Writable: true

=====

1. Create a new File
2. Read the data in the file
3. Write data into the file
4. Delete the file
5. Rename a file
6. Get the absolute file path
7. Get the File information
8. Check the file permissions
Enter the choice:
Wrong choice..!!!!

=====
```

