Java Programming Lab

Ex. No. 10	FILE HANDLING
Date of Exercise	23-03-2018

Aim:

Create a function in Java to count the number of embedded white spaces and punctuations present in a text file named "Sample.txt".

Algorithm:

1) Start.
2) Inside the main function, create a file 'Sample.txt' and then initialize the string.
3) Then, write the string into the file and then read from it.
4) Now, initialize two count variables to count the number of embedded white spaces and punctuations.
5) Then, initialize a while loop and it will run till the end of file. Then, inside the loop we will check for embedded white spaces and punctuations, if found we will increment the count and display the value of the count.
6) End.

Source Code:

```
package exp10;

import java.io.File;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.nio.CharBuffer;

import java. util.Scanner;

public class Exp10 {

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

            Scanner s=new Scanner(System.in);
```

```java
String str="I am Justin $. This is my tenth exercise in & java.";

File file=new File("sample.txt");

FileWriter f=new FileWriter(file);

f.write(str);

f.flush();

f.close();

FileReader r=new FileReader("sample.txt");

int ch;

int count=0;

int cont1=0;

while( (ch=r.read())!=-1){

if(ch==32){

    count=count+1;}

else if(ch==46||ch==44||ch==33){

cont1=cont1+1;

}}
System.out.println("The string is: "+str);

System.out.println("The number of white spaces are: "+count);

System.out.println("The number of punctuation marks are: "+cont1);

r.close();}}
```
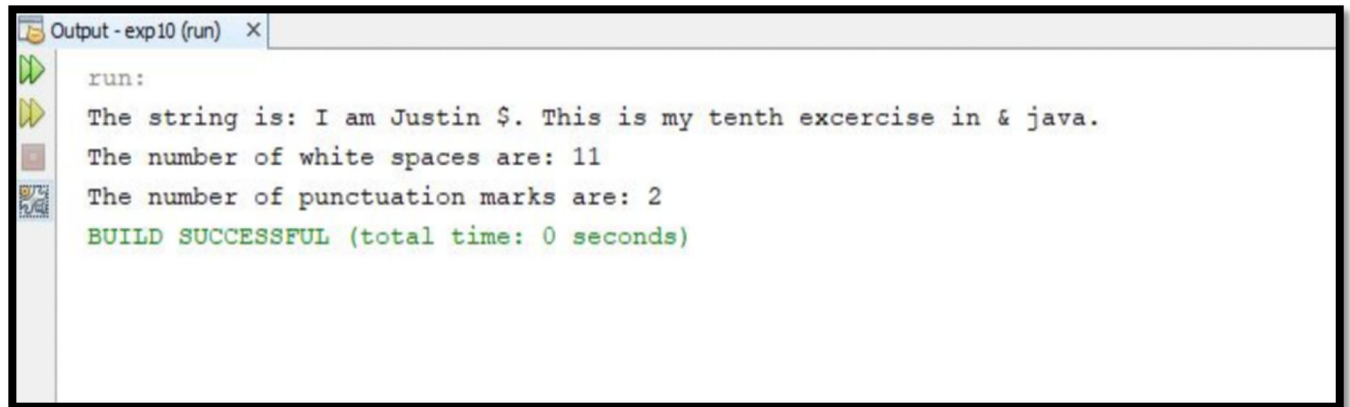
Input & Output:

```
Output - exp10 (run)   ✕

run:
The string is: I am Justin $. This is my tenth excercise in & java.
The number of white spaces are: 11
The number of punctuation marks are: 2
BUILD SUCCESSFUL (total time: 0 seconds)
```

Video URL:

https://www.youtube.com/watch?v=wiWI81Ydq90&list=PL2ARJYFJqbcImMxZ0lOblv4a-9nBZrstY&index=10

Result:

The program to create a function in Java to count the number of embedded white spaces and punctuations present in a text file named "Sample.txt".