

# JAVA LAB PROGRAMS

## Week-9

### Aim:

9. a) Write a program that reads file name from the user then displays information about that file, also read the contents from the file in byte stream to count number of alphabets, numeric values and special symbols. Write these statistics into another file using byte streams.

### Code

```
import java.io.*;

class Week9a
{
    public static void main(String args[]) throws IOException
    {
        File fr=new File("D://19131A05Q9 //input.txt");
        File fw=new File("D://19131A05Q9// 9aoutput.txt");
        FileInputStream fis=new FileInputStream(fr);
        FileOutputStream fos=new FileOutputStream(fw);
        int alphabets=0;
        int numeric=0;
        int special=0;
        int i=0;
        StringBuffer alp=new StringBuffer();
        StringBuffer num=new StringBuffer();
        StringBuffer spec=new StringBuffer();
        while((i=fis.read())!=-1)
        {
            if(i>='0' && i<='9')
            {
                numeric++;
            }
        }
    }
}
```

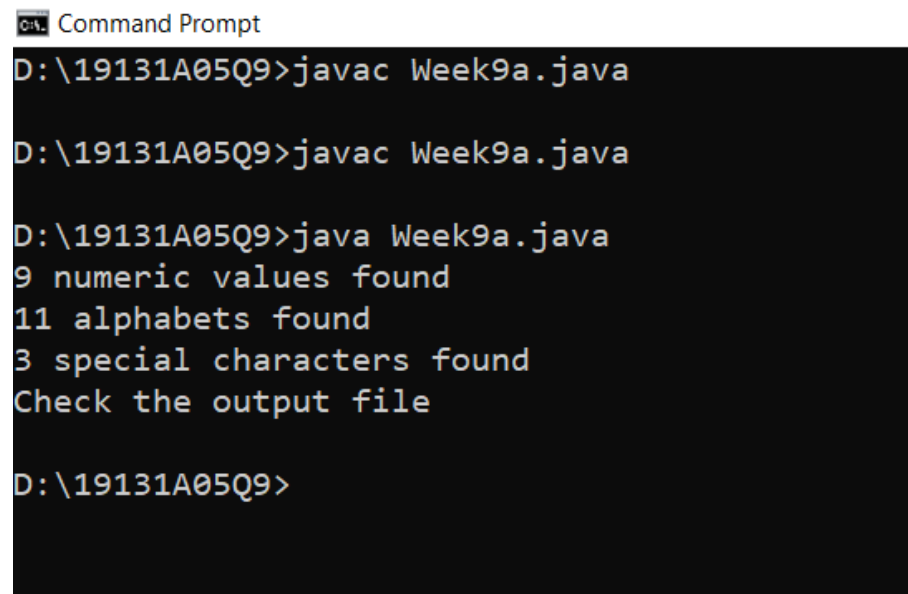
```

        num.append((char)i);
    }
    else if(i>='A' && i<='z')
    {
        alphabets++;
        alp.append((char)i);
    }
    else
    {
        special++;
        spec.append((char)i);
    }
}
num.append((char)'-');
num.append(numeric);
alp.append((char)'-');
alp.append(alphabets);
spec.append((char)'-');
spec.append(special);
for(int a=0;a<num.length();a++)
{
    fos.write(num.charAt(a));
}
fos.write((char)'\n');
for(int a=0;a<alp.length();a++)
{
    fos.write(alp.charAt(a));
}
fos.write((char)'\n');

```

```
for(int a=0;a<spec.length();a++)
{
    fos.write(spec.charAt(a));
}
fos.write((char)'\n');
System.out.println(numeric+" numeric values found");
System.out.println(alphabets+" alphabets found");
System.out.println(special+" special characters found");
fis.close();
fos.close();
System.out.println("Check the output file");
}
}
```

## Output

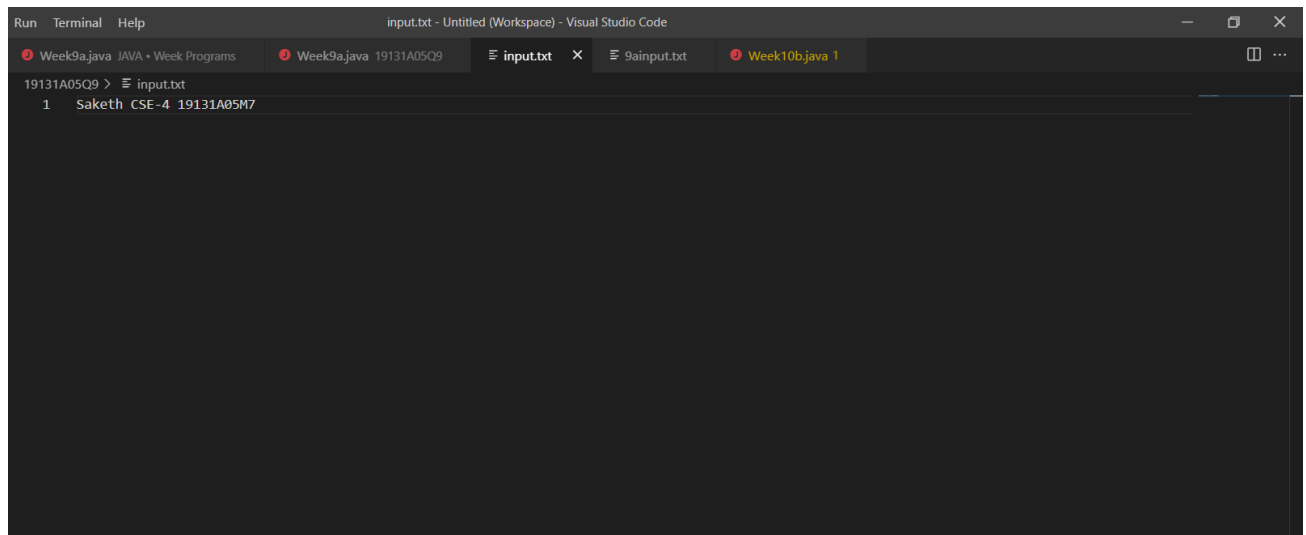


```
C:\1\ Command Prompt
D:\19131A05Q9>javac Week9a.java

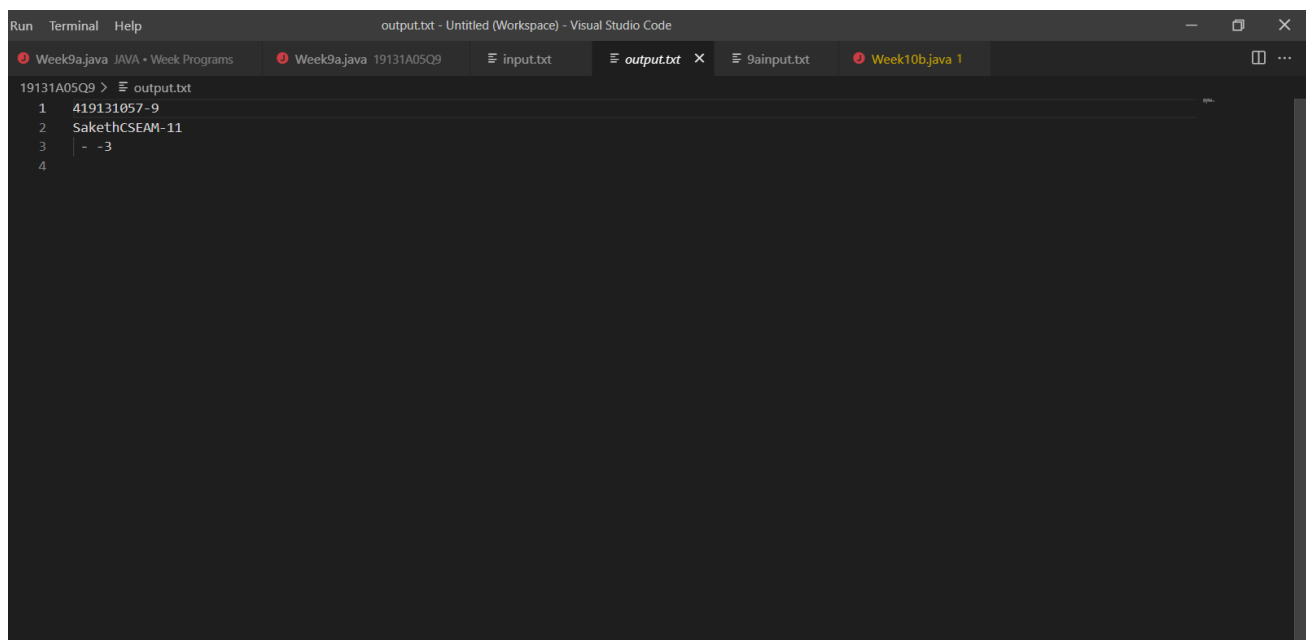
D:\19131A05Q9>javac Week9a.java

D:\19131A05Q9>java Week9a.java
9 numeric values found
11 alphabets found
3 special characters found
Check the output file

D:\19131A05Q9>
```



```
Run Terminal Help
input.txt - Untitled (Workspace) - Visual Studio Code
Week9a.java JAVA • Week Programs Week9a.java 19131A05Q9 input.txt 9ainput.txt Week10b.java 1
19131A05Q9 > input.txt
1 Saketh CSE-4 19131A05M7
```



```
Run Terminal Help
output.txt - Untitled (Workspace) - Visual Studio Code
Week9a.java JAVA • Week Programs Week9a.java 19131A05Q9 input.txt output.txt 9ainput.txt Week10b.java 1
19131A05Q9 > output.txt
1 419131057-9
2 SakethCSEAM-11
3 - -3
4
```

c) Write a program that reads a text file containing some technical content and identify the technical terms and sort them alphabetically. Note: use a file containing stop words (general English and Grammar terms as many terms as possible)

## Code

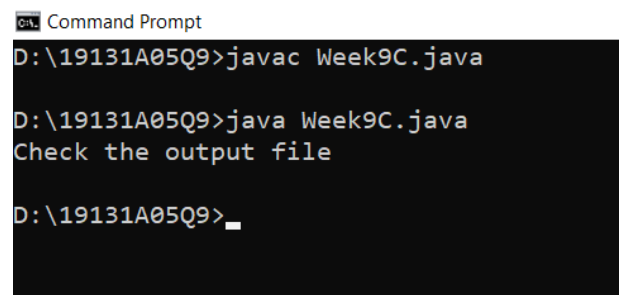
```
import java.io.*;

import java.util.Arrays;

public class Week9c
{
    public static void main(String args[]) throws IOException
    {
        FileInputStream fis=new FileInputStream("D://19131A05Q9//input.txt");
```

```
FileWriter fw=new FileWriter("D://19131A05Q9//output.txt");
InputStreamReader isr=new InputStreamReader(fis);
BufferedReader br=new BufferedReader(isr);
String line;
String[] wordlist={};
while((line=br.readLine())!=null)
{
    wordlist=line.split(" ");
}
Arrays.sort(wordlist);
for(String s:wordlist)
{
    fw.write(s);
    fw.write(" ");
}
fw.close();
br.close();
System.out.println("Check the output file");
}
```

## Output



```
Command Prompt
D:\19131A05Q9>javac Week9C.java
D:\19131A05Q9>java Week9C.java
Check the output file
D:\19131A05Q9>_
```

```
Run  Terminal  Help
input.txt - Untitled (Workspace) - Visual Studio Code
Week9a.java JAVA • Week Programs Week9a.java 19131A05Q9 input.txt Week9c.java 9ainput.txt Week10b.java 1
19131A05Q9 > input.txt
1 and an the or not if why
```

```
Run  Terminal  Help
output.txt - Untitled (Workspace) - Visual Studio Code
Week9a.java JAVA • Week Programs Week9a.java 19131A05Q9 input.txt output.txt Week9c.java 9ainput.txt Week10b.java 1
19131A05Q9 > output.txt
1 an and if not or the why
```