8.

File Io problem
Create new file 'test.txt'.
Write a data in it. (about 300 words.
Read a file 'test.txt'.
Calculate the letter in it. (a, b, c, d...)
Constant in that file (b, c, d, f...)
vowel in that file (a, e, i, o, u)
words in a complete file. ("JAVA")
Calculate how many time one charac-
ter is repeated.
    (a = 10, b = 50, z = 34 ...)
Save that file with other name
    'test-copy.txt'.

→

```
import java.io.*;
import java.util.*;
class File {
static final int MAX_CHAR = 256;
static int countchar ( string str)
{
int counts[] = new int[MAX_CHAR];
int len = str.length();
for( int i2 = 0; i2 < len; i2++)
    counts[str.charAt(i2)]++;
char chz[] = new char[str.length()];
for(int i2 = 0; i2 < len; i2++)
{
chz[i2] = str.charAt(i2);
int find = 0;
```

```java
    for ( int j2 = 0; j2 <= i2; j2++) {
     if ( str. charAt (i2) == ch2 [j2])
        find ++;
    }
   if (find ==1)
    System. out. println (" number of
            occurence of "+ str. charAt(i
            + " is" + count5[ str. cha-
        rAt (i2) ]);
   }
   return o;
  }
  public static void main (string args
                [] throws exception
   {

    FileWriter fw = new FileWriter ("test.
                txt");
    for(int i = 0; i < str. length(); i++)
    fw. write (str. charAt (i);
    System. out. println ("writing succes-
            full");
    fw. close ();
    int ch;
    FileReader fr = null;
    try {
    fr = new FileReader ("test.txt");
    }
```

```java
catch (FileNotFoundException fe)
{
    System.out.println ("File not found");
}

int vowels = 0, consonants = 0, p = 0;
while ((ch = fr.read() != -1))
{
    // System.out.println((char)ch);
}

int count = 0, count1 = 0;
char ch1;
str = str.toLowerCase();
for (int k = 0; k < str.length();
    k++) {
    if ( str.charAt (k) != ' ')
    {
        count ++;
    }
    if ( str.charAt(k) == 'a' || str.
    charAt (k) == 'e' || str.charAt (k) =
    'i' || str.charAt (k) == 'o' ||
    str.charAt(k) == 'u' ) {
        vowels ++;
    }
    else
    {
        consonants ++;
    }
}
```

```java
        }
        char ch2[] = new char[str.length()];
        for (int i = 0; i < str.length();
                i++)
        {
        ch2[i] = str.charAt(i);
        if ((i > 0 && (ch2[i] =' ') &&
          (ch2[i-1] ==" ") || (ch2[0] != ' ')
          && (i == 0)))
            count++;
        }
        System.out.println("Total number
            of character in a string :"
                    + count);
        System.out.println("Total number
            of vowel in test.txt file :+ vowe
        System.out.println("Total number
            of consonants:" + consonants);

        System.out.println("Total number
            of words in test.txt : +count
        Countchar (str);
        fr.close();
        }
    }
```

output:

Writing - succesful

Total number of character in string : 1421
Total number of vowe in test .txt file : 545
Total number of consonants in test .txt file : 1130
Total number of words in test. txt file = 249

Number of occurence of f is 67
Number of occurence of i is 117
Number of occurence of 1 is 63
Number of occurence of e is 186
Number of occurence of is 254
Number of occurence of h is 34
Number of occurence of a is 125