

```

1. package iostreams;
import java.io.*;
public class RWFile {

    public static void main(String[] args) throws IOException {
        FileReader fr=new FileReader("C:/Users/Test/eclipse-workspace/OOPS
Through Java/src/iostreams/RWFile.java");
        FileWriter fw=new FileWriter("D:/Java Practice
DAC/I0streams/result.txt");
        int wc=0;
        int lc=0;
        int x,cc=0;
        while( (x=fr.read())!= -1) {
            System.out.print((char)x);
            cc++;
            if(x==' ')
                wc++;
            if(x=='\n')
                lc++;
        }
        fw.write("CharacterCount: "+cc+'\n');
        fw.write("WordCount: "+wc+'\n');
        fw.write("LineCount: "+lc+'\n');
        fr.close();
        fw.close();
    }
}

```

o/p:

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package iostreams;
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public class RWFile {

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            cc++;
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                wc++;
            if(x=='\n')
                lc++;
        }
        fw.write("CharacterCount: "+cc+'\n');
        fw.write("WordCount: "+wc+'\n');
        fw.write("LineCount: "+lc+'\n');
        fr.close();
        fw.close();
    }
}

```

```

}

CharacterCount: 646

WordCount: 30

LineCount: 27

2. package iostreams;
import java.io.*;
public class RWLines {

    public static void main(String[] args) throws IOException {
        FileReader fr=new FileReader("C:/Users/Test/eclipse-workspace/OOPS Through Java/src/iostreams/RWLines.java");
        BufferedReader br=new BufferedReader(fr);
        BufferedWriter bw=new BufferedWriter(new FileWriter("D:/Java Practice DAC/I0streams/resultLines.txt"));
        String line=br.readLine();
        int lc=0;
        while(line!=null) {
            lc++;
            bw.write(lc+". "+line+"\n");
            line=br.readLine();
        }
        System.out.println("LinesCount: "+lc);
        System.out.println("Written Successfully");
        br.close();
        bw.close();
    }
}
o/p:
package iostreams;
import java.io.*;
public class RWLines {

    public static void main(String[] args) throws IOException {
        FileReader fr=new FileReader("C:/Users/Test/eclipse-workspace/OOPS Through Java/src/iostreams/RWLines.java");
        BufferedReader br=new BufferedReader(fr);
        BufferedWriter bw=new BufferedWriter(new FileWriter("D:/Java Practice DAC/I0streams/resultLines.txt"));
        String line=br.readLine();
        int lc=0;
        while(line!=null) {
            lc++;
            bw.write(lc+". "+line+"\n");
            line=br.readLine();
        }
        System.out.println("LinesCount: "+lc);
        System.out.println("Written Successfully");
        br.close();
        bw.close();
    }
}
LinesCount: 21
Written Successfully

```

```

3. package iostreams;
import java.io.*;
public class RThL {

    public static void main(String[] args) throws IOException{
        FileReader fr=new FileReader("D:/Java Practice
DAC/I0streams/java.txt");
        BufferedReader br=new BufferedReader(fr);
        String lines=br.readLine();
        BufferedWriter bw=new BufferedWriter(new FileWriter("D:/Java
Practice DAC/I0streams/ThreeLines.txt"));
        int lc=1;
        while(lines!=null && lc<=3) {
            bw.write(lc+"."+lines+"\n");
            lines=br.readLine();
            lc++;
        }
        br.close();
        bw.close();
        System.out.println("Read First Three Lines Successfully ");
    }
}

```

o/p:

1.Learning OOPS Through Java

2.Java is an object oriented Programming language

3.It is robust because of Garbage Collection and Exception Handling

Read First Three Lines Successfully

```

4. package iostreams;
import java.io.*;
public class LongestWord {

    public static void main(String[] args) throws IOException {
        FileReader fr=new FileReader("D:/Java Practice
DAC/I0streams/java.txt");
        BufferedReader br=new BufferedReader(fr);
        int len=0;
        String lw="";
        String lines = br.readLine();
        String[]arr;
        while(lines!=null) {

            arr=lines.split(" ");
            lines=br.readLine();
            for(int i=0;i<arr.length;i++) {
                if(arr[i].length()>len) {
                    len=arr[i].length();
                    lw=arr[i];
                }
            }
        }
    }
}

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        }
        System.out.println("Longest Word: "+lw+" with length: "+len);
        br.close();
    }
}
```

o/p:

```
    Longest Word: Multithreading with length: 14
```

```
5. package iostreams;
import java.io.*;
public class CeaserCipher {
    public static void main(String[] args) throws IOException{
        FileReader fr=new FileReader("D:/Java Practice
DAC/I0streams/enc_msg.txt");
        FileWriter fw=new FileWriter("D:/Java Practice
DAC/I0streams/dec_msg");
        int x;
        while( (x=fr.read())!=-1) {
            System.out.print((char)(x+3));
            fw.write((char)(x+3));
        }
        fr.close();
        fw.close();
    }
}
```

o/p:

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6. package iostreams;
import java.util.*;
import java.io.*;
public class UniqueWords {
    public static void main(String[] args) throws IOException {
        FileReader fr=new FileReader("D:/Java Practice DAC/I0streams/java.txt");
        BufferedReader br=new BufferedReader(fr);
        BufferedWriter bw=new BufferedWriter(new FileWriter("D:/Java Practice
DAC/I0streams/UniqueWords.txt"));
        List<String> list=new ArrayList<>();
        String line;
        String words[];
        while((line=br.readLine())!=null) {
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        words=line.toLowerCase().split(" ");
        for(String i:words) {
            if(!list.contains(i)) {
                list.add(i);
            }
        }
        br.close();
        System.out.println("Unique Words in file are: ");
        for(String j:list) {
            bw.write(j+" ");
            System.out.print(j+" // ");
        }
        bw.close();
    }
}

```

o/p: learning oops through java is an object oriented programming language it robust because of garbage collection and exception handling has many other features such as supports multithreading we can also implement multiple inheritance using interfaces

```

7. package iostreams;
import java.util.*;
import java.io.*;

public class DuplicateWords {

    public static void main(String[] args) throws IOException {
        FileReader fr = new FileReader("D:/Java Practice DAC/I0streams/java.txt");
        BufferedReader br = new BufferedReader(fr);
        BufferedWriter bw = new BufferedWriter(new FileWriter("D:/Java Practice
DAC/I0streams/DuplicateWords.txt"));

        List<String> list = new ArrayList<>();
        List<String> du = new ArrayList<>();
        String line;
        String[] words;

        while((line = br.readLine()) != null) {
            words = line.toLowerCase().split("\\s+");
            for(String i : words) {
                if(list.contains(i)) {
                    if(!du.contains(i)) {
                        du.add(i);
                    }
                }
            }
        }
        br.close();
        bw.close();
    }
}

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```
        } else {
            list.add(i);
        }
    }
br.close();

System.out.println("Duplicate Words in file are: ");
for(String j : du) {
    bw.write(j + " ");
    System.out.print(j + " // ");
}
bw.close();
}
}
```

o/p:

java is it and exception