WEEK 13

Question 1: Write a Java Program to create a new file.
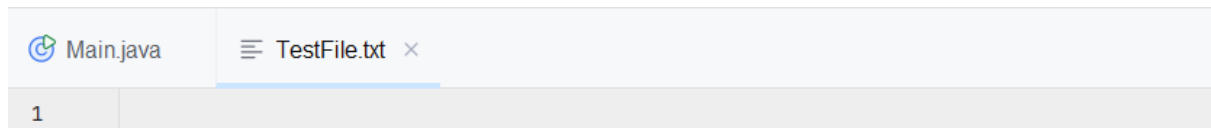
Code: *Main.java*

```java
package file;
import java.io.*;
public class Main {
    public static void main(String[] args) throws IOException {
        File file = new File("TestFile.txt");
        boolean isFileCreated = file.createNewFile();
        System.out.println( (isFileCreated) ? "File Created." : "File Not Created." );
    }
}
```

Output: "C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=59644" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 13\Question1\target\classes" file.Main

File Created.

Process finished with exit code 0

test.txt

⏱ Main.java	≡ TestFile.txt ✕
1	

Question 2: Write a Java Program to write into a file.
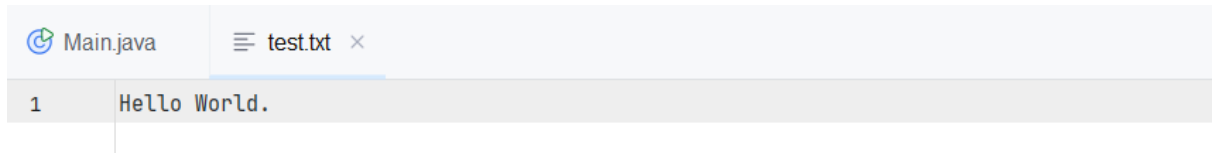
Code: *Main.java*

```java
package file;
import java.io.IOException;
import java.io.FileWriter;
public class Main {
    public static void main(String[] args) {
        try (FileWriter fw = new FileWriter("test.txt", true)) {
            fw.write("Hello World.");
            System.out.print("File has been written successfully.");
        } catch (IOException e) {
            System.out.println("IOException occurred: " + e.getMessage());
        }
    }
}
```

Output: "C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=52486" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 13\Question2\target\classes" file.Main

File has been written successfully.

Process finished with exit code 0

test.txt

Question 3: Write a Java Program to copy one file into another file.
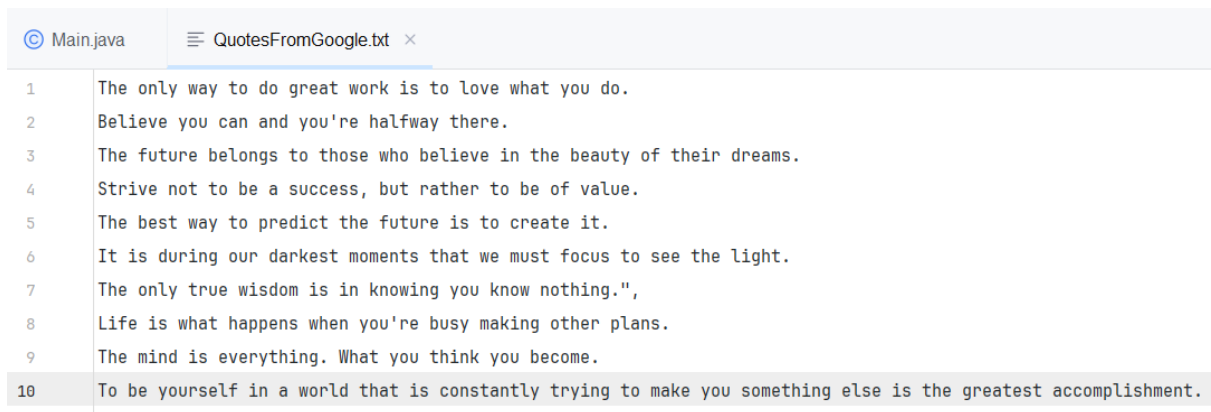
Code:

Main.java

```java
package file;
import java.io.*;
public class Main {
    public static void main(String[] args) {
        try {
            BufferedReader br = new BufferedReader(new FileReader("QuotesFromGoogle.txt"));
            BufferedWriter bw = new BufferedWriter(new FileWriter("ChairManSpeech.txt", true));
            String line;
            while ((line = br.readLine() )!= null) {
                bw.write(line);
                bw.newLine();
            }
            bw.flush();
            bw.close();
            br.close();
        } catch ( IOException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```

Output: "C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=56871" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 13\Question3\target\classes" file.Main
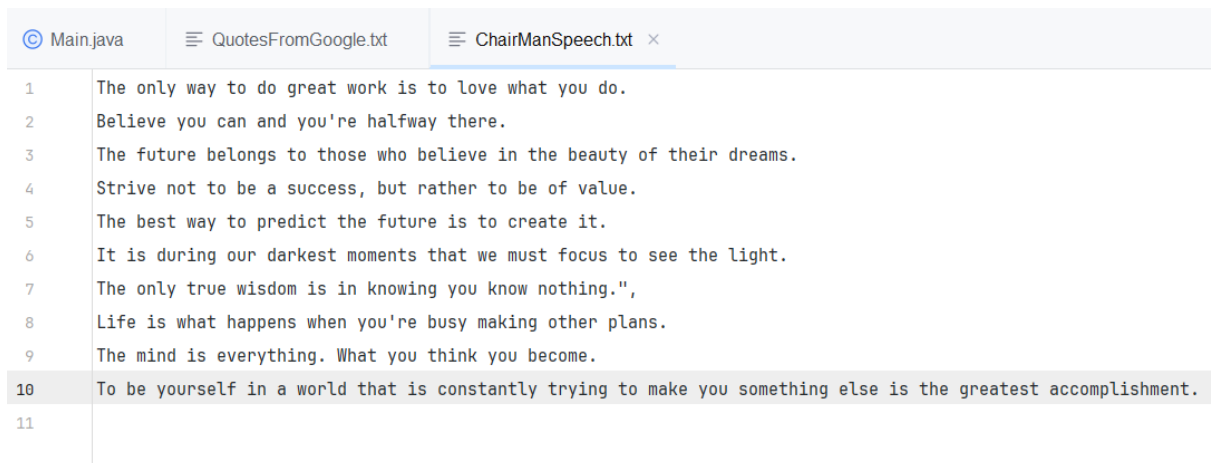
Process finished with exit code 0

QuotesFromGoogle.txt

```
© Main.java      ≡ QuotesFromGoogle.txt  ×
1    The only way to do great work is to love what you do.
2    Believe you can and you're halfway there.
3    The future belongs to those who believe in the beauty of their dreams.
4    Strive not to be a success, but rather to be of value.
5    The best way to predict the future is to create it.
6    It is during our darkest moments that we must focus to see the light.
7    The only true wisdom is in knowing you know nothing.",
8    Life is what happens when you're busy making other plans.
9    The mind is everything. What you think you become.
10   To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.
```

ChairManSpeech.txt

```
© Main.java      ≡ QuotesFromGoogle.txt     ≡ ChairManSpeech.txt  ×
1    The only way to do great work is to love what you do.
2    Believe you can and you're halfway there.
3    The future belongs to those who believe in the beauty of their dreams.
4    Strive not to be a success, but rather to be of value.
5    The best way to predict the future is to create it.
6    It is during our darkest moments that we must focus to see the light.
7    The only true wisdom is in knowing you know nothing.",
8    Life is what happens when you're busy making other plans.
9    The mind is everything. What you think you become.
10   To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.
11
```

Question 4: Write a java program to find total no. of characters in a file.

Code: *Main.java*

```java
package file;
import java.io.*;
public class Main {
    public static void main(String[] args) {
        int count = 0;
        try {
            FileReader fr = new FileReader("Quotes.txt");
            int ch;
            while ((ch = fr.read()) != -1) {
                count++;
            }
            fr.close();
            System.out.println("Total characters in file: " + count);
        } catch (IOException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```
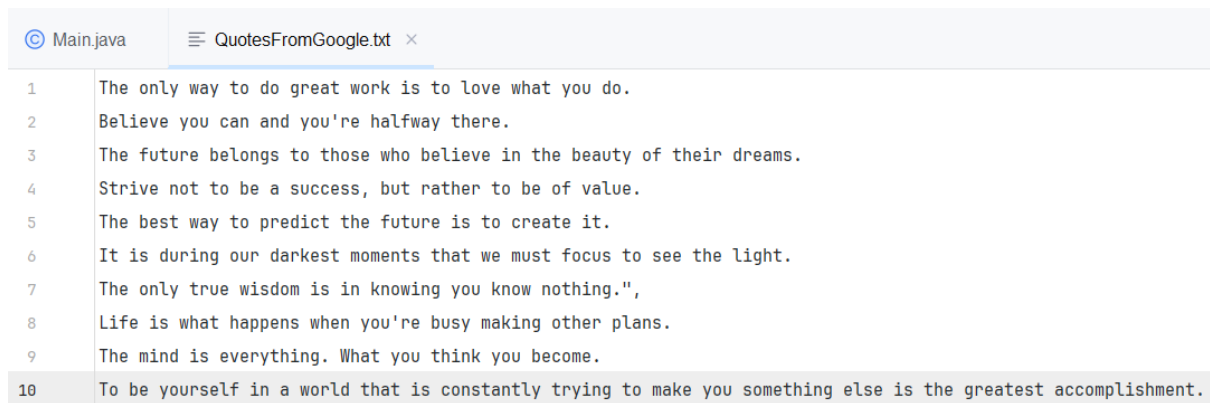
Output:
"C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=65233" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 13\Question4\target\classes" file.Main

Total characters in file: 625

Process finished with exit code 0

Quotes.txt

Ⓒ Main.java	☰ QuotesFromGoogle.txt ✕

```
1     The only way to do great work is to love what you do.
2     Believe you can and you're halfway there.
3     The future belongs to those who believe in the beauty of their dreams.
4     Strive not to be a success, but rather to be of value.
5     The best way to predict the future is to create it.
6     It is during our darkest moments that we must focus to see the light.
7     The only true wisdom is in knowing you know nothing.",
8     Life is what happens when you're busy making other plans.
9     The mind is everything. What you think you become.
10    To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.
```

Question 5: Write a java program to find total no. of lines in a file.

Code:

Main.java

```java
package file;
import java.io.*;
public class Main {
    public static void main() {
        int lineCount = 0;
        try {
            BufferedReader br = new BufferedReader(new FileReader("Quotes.txt"));
            String line;
            while ((line = br.readLine()) != null) {
                lineCount++;
            }
            br.close();
            System.out.println("Total lines in file: " + lineCount);
        } catch (IOException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```
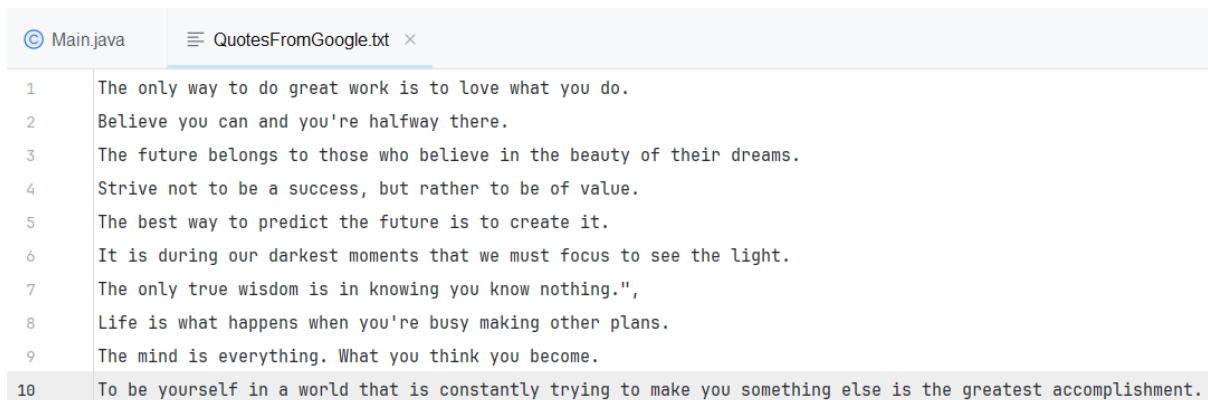
Output: "C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=56516" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 13\Question5\target\classes" file.Main

Total lines in file: 10

Process finished with exit code 0

Quotes.txt

	Main.java ≡ QuotesFromGoogle.txt ×
1	The only way to do great work is to love what you do.
2	Believe you can and you're halfway there.
3	The future belongs to those who believe in the beauty of their dreams.
4	Strive not to be a success, but rather to be of value.
5	The best way to predict the future is to create it.
6	It is during our darkest moments that we must focus to see the light.
7	The only true wisdom is in knowing you know nothing.",
8	Life is what happens when you're busy making other plans.
9	The mind is everything. What you think you become.
10	To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.