

#### Unit 1.4

Q) Write a program to read records from a text file which contains people's name, principle, rate and time values. Calculate simple interest and write all the contents of the source file along with simple interest to destination file.

source.txt

John 10000 10.5 2.5

Jane 5000 9.25 5.0

destination.txt

John 10000 10.5 2.5 2625.00

Jane 5000 9.25 5.0 2312.50

#### Program:

```
package pkg1.pkg4.pkg3;
```

```
import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintWriter;
import java.util.Scanner;

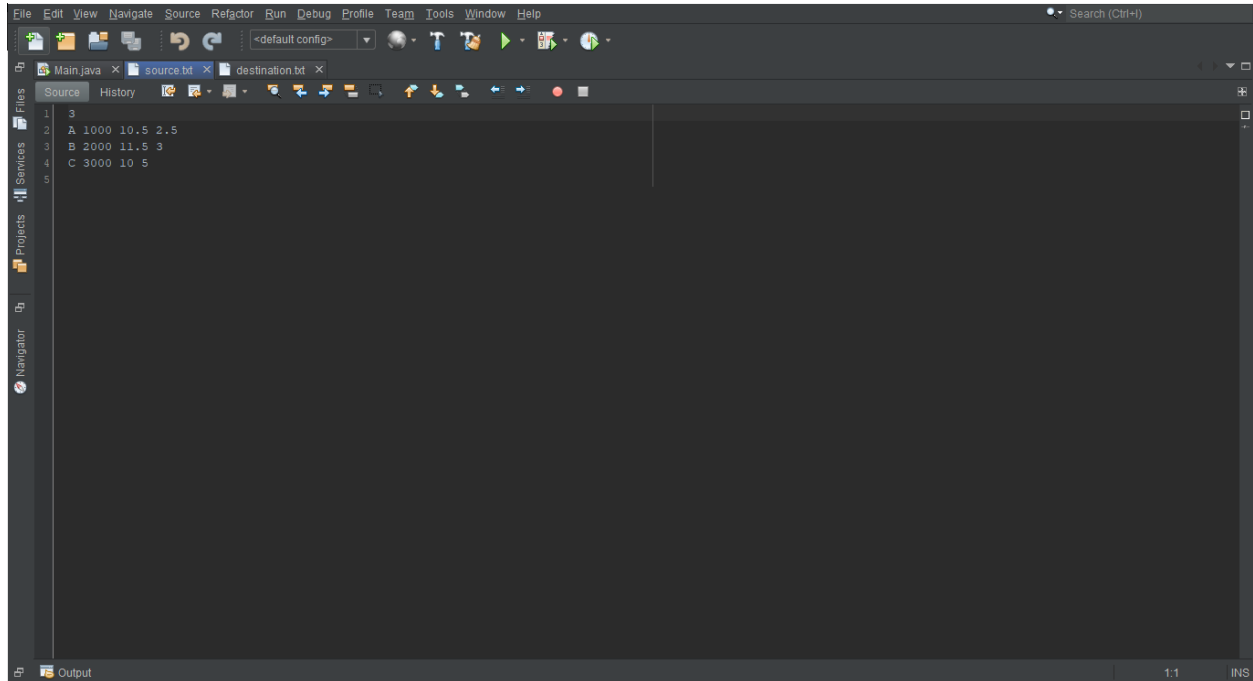
/**
 *
 * @author aashish
 */
public class Main {

    public static void main(String[] args) throws
FileNotFoundException {
        PrintWriter out;
        try (Scanner in = new Scanner(new File("source.txt"))) {
            out = new PrintWriter(new File("destination.txt"));
            int recordCount = in.nextInt();
            System.out.println("No of recoeds found :- " +
recordCount);
            for (int i = 0; i < recordCount; i++) {
                String name = in.next();
                int principal = in.nextInt();
                float rate = in.nextFloat();
                float time = in.nextFloat();
                double simpleIntrest = ((principal * rate * time) /
100;
                out.printf("%s %d %f %f %f %n", name, principal, rate,
time, simpleIntrest);
            }
        }
        out.close();
        System.out.println("The operation completed");
    }
}
```

Aashish

}

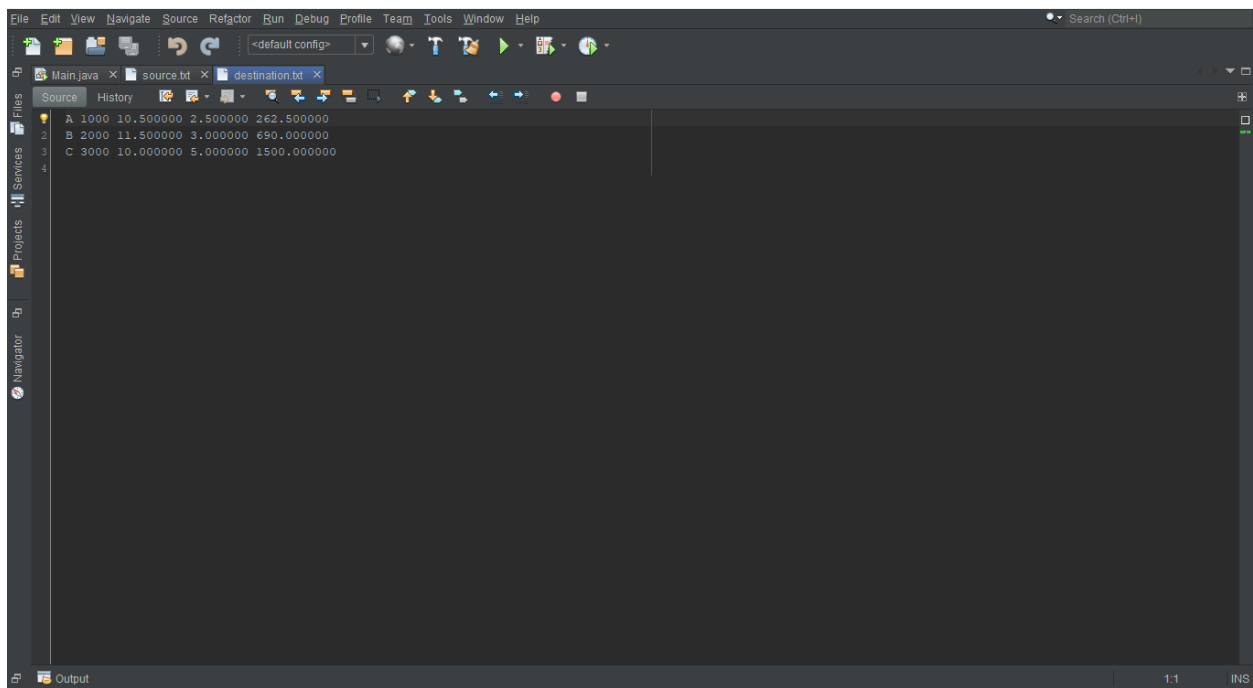
Output:



The screenshot shows an IDE with three tabs: Main.java, source.bit, and destination.bit. The source.bit tab is active, displaying the following code:

```
1 3
2 A 1000 10.5 2.5
3 B 2000 11.5 3
4 C 3000 10 5
5
```

The destination.bit tab is empty. The bottom status bar shows '1:1' and 'INS'.



The screenshot shows the same IDE with the same three tabs. The source.bit tab is active, displaying the following code:

```
1 A 1000 10.500000 2.500000 262.500000
2 B 2000 11.500000 3.000000 690.000000
3 C 3000 10.000000 5.000000 1500.000000
4
```

The destination.bit tab is empty. The bottom status bar shows '1:1' and 'INS'.