

Q. Wleed.java.

```
import java.util.Scanner;  
import java.io. File;  
import java.io. FileReader;  
import java.io. FileWriter;  
import java.io. IOException;
```

```
public class Wleed {
```

```
    public static void main (String[] args) {
```

```
        String value;
```

```
        Scanner sc = new Scanner (System.in);
```

```
        value = sc.nextLine();
```

```
    try {
```

```
        File newFile = new File ("newFile.txt");
```

```
        FileWriter writeFile = new FileWriter (new File);
```

```
        for (char ch : value.toCharArray()) {
```

```
            if ((Character.isLetter(ch)) || (ch == " ") || (ch == '\n'))
```

```
                writeFile.write(ch);
```

```
        }
```

```
        writeFile.close();
```

```
        FileReader fileReader = new FileReader (new File);
```

```
        int i;
```

```
        while ((i = fileReader.read()) != -1) {
```

```
            System.out.println(i);
```

```
        }  
        fileReader.close();
```

```
    }
```

```
    catch (IOException e) {
```

```
        System.out.println(e);
```

```
    }  
    sc.close();
```


Q. Average.java

```
import java.util.Scanner;
import java.io.File;
import java.io.FileReader;
import java.io.BufferedReader;
import java.io.IOException;

public class Average {
    public static void main (String[] args) {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the name of the file where the
                               details are present: ");

        String fileName = sc.nextLine();
        int line count = 0;
        int sum = 0;
        int validMarks count = 0;
        boolean has Error = false;
        String error Remark = " ";

        try (BufferedReader bufferedReader = new BufferedReader (new FileReader (new File
                                                                    (fileName)))) {

            String line;
            while ((line = bufferedReader.readLine()) != null) {
                line count++;
                if (line count < 6) {
                    continue;
                }

                String[] content Array = line.split ("\\s");
                if (content Array length < 2) {
                    has Error = true;
                    error Remark = "Malformed data: Missing marks in
                                     line " + line count;
                    break;
                }

                String mark string = content Array [1];

                try {
                    int marks = Integer.parseInt (mark string);
                    if (marks < 0) {
                        has Error = true;
                        error Remark = "Invalid data: Negative marks on line " + line count;
                        break;
                    }
                }
            }
        }
    }
}
```



```
if (marks > 100) {
```

```
    hasError = true;
```

```
    errorRemark = "Invalid data: Marks greater than  
100 on line " + line count;
```

```
    break;
```

```
}
```

```
Sum += marks;
```

```
valid Marks Count++;
```

```
}
```

```
Catch (NumberFormatException) {
```

```
    has error = true;
```

```
    errorRemark = "Invalid data: Non-numeric Marks on line "  
line count;
```

```
    break;
```

```
}
```

```
}
```

```
if (hasError) {
```

```
    System.out.println("Result: NA");
```

```
    System.out.println("Average: NA");
```

```
    System.out.println("Result - promoted: NA");
```

```
    System.out.println("Remarks: " + errorRemark);
```

```
}
```

```
else {
```

```
    float average = (float) Sum / valid Marks count;
```

```
    System.out.println("Result: " + Sum);
```

```
    System.out.println("Average: " + String.format("%.2f", average));
```

```
    if (Sum / valid Marks count * 100.00 > 40.0) {
```

```
        System.out.println("Result - Promoted: Yes");
```

```
    }
```

```
    else {
```

```
        System.out.println("Result - Promoted: No");
```

```
    }
```

```
}
```

```
Catch (IOException e) {
```

```
    System.out.println("Error reading file: " + e.getMessage());
```

```
    System.exit(0);
```

```
}
```

```
sc.close();
```

```
}
```

```
}
```