

## **Algorithm**

1. Start
2. Read file.dat, store in fileRead.
3. Write to file.out "Students Eng Math Sci Hstry Arts Sum Avg", store in fileOut.
4. Write to fileOut "-----"
5. Start for loop at 0, store in counter.
6. If counter < 6, go to step 7. Else, skip to step 15.
7. Read student name from fileRead, store in name.
8. Read marks of Eng, Math, Sci, Hstry, and Arts from fileRead. Store in mark1, mark2, mark3, mark4, mark5.
9. Compute sum of marks(= mark1 + mark2 + mark3 + mark4 + mark5), store in summark.
10. Compute average of marks (= summark / 5.0), store in avgmark.
11. Write to fileOut "name mark1 mark2 mark3 mark4 mark5 summark avgmark".
12. Display "name, mark1 mark2 mark3 mark4 mark5 summark avgmark" on console.
13. Increment counter by 1.
14. Go back to step 6.
15. Close fileRead.
16. Close fileOut.

## Flowchart

