Textfile Pseudo Code

Algorithm 3: Filter Students By Threshold

Input: List of students, threshold value

Output: List of students with total marks less than threshold

BEGIN

Prompt user for threshold value

FOR each student in the list

IF student total marks < threshold value THEN

PRINT student details

ENDIF

ENDFOR

END

Algorithm 4: Sort and Print top Students

Input: List of students

Output: Top 5 highest and lowest scoring students

BEGIN

FOR i from 0 to length of students list - 1

FOR j from 0 to length of students list - i - 1

IF students[j].totalMarks > students[j+1].totalMarks THEN

SWAP students[j] and students[j+1]

ENDIF

ENDFOR

ENDFOR

PRINT "Top 5 Lowest Scoring Students:"

FOR i from 0 to 4

PRINT students[i] details

ENDFOR

PRINT "Top 5 Highest Scoring Students:"

FOR i from length of students list - 1 down to length - 5

PRINT students[i] details

ENDFOR

END