Sl Roll Name

1 MCE07905532 Morad Hossen

2 MSE07905536 Shyed Shahriar Housaini

3 MCE07905537 Anjan Chandra Das

4 MCE08005540 Md. Ali Ahsan

5 MCE08005541 Nasrin Akter Sumi

6 MCE08005542 Farha Jabin

7 MCE08005543 Sadia Jafrin

8 MCE08005544 Abdishakur Hussein

9 MCE08005546 Asad Ahmed Ali

10 MCE08005547 Hussein Ibrahim Ahmed

In the StudentInf.txt file

The first row is the attribute Row having Sl ( the serial) and Roll and Name attributes, Each attribute column is separated by a tab. C program should read them separately.

Then from the second row or second line, separated by a single line afterward, all the rest of the text represents attribute values.

Sl Roll Name

1 MCE07905532 Morad Hossen

Attribute values in the same row are also separated by a tab, and different rows are separated by a single line.

Name attribute values have single spaces between them, but they should be considered one string or char array value.

Write a C program to read the file and store and connect the Roll to the corresponding Name values and also can store and print out the Sl and Roll and Corresponding Names

Subject Credit

CSE 101 3.0

CSE 102 1.5

CSE 103 3.0

CSE 104 0.75

CSE 105 2.0

In the SubjectInf.txt file

The first row is the attribute Row having Subject and Subject Credit attributes, Each attribute column is separated by a tab

Then from the second row or line, separated by a single line afterward, all the rest of the text represents attribute values, Attribute values in the same row are also separated by a tab, and different rows are separated by a single line.

Subject Name attribute values have single spaces between them, but they should be considered one string or char array value. Subject Credit attribute values are floats

Write a C program to read the file and store and connect the Subject to the corresponding Credit values and also store and print out the Roll and Corresponding Names

LBound UBound LGrade GradePoint

80 100 A+ 4.00

75 79 A 3.75

70 74 A- 3.50

65 69 B+ 3.25

60 64 B 3.00

55 59 B- 2.75

50 54 C+ 2.50

45 49 C 2.25

40 44 D 2.00

0 39 F 0.00

In the Grading.txt file

The first row is the attribute Row having LowerBound Marks and UpperBound Marks and LetterGrade and GradePoint attributes, Each attribute column is separated by a tab

Then from the second row or line, separated by a single line afterward, all the rest of the text represents attribute values, Attribute values in the same row are also separated by a tab, and different rows are separated by a single line.

LowerBound Marks and UpperBound Marks are integers LetterGrade values are strings and GradePoint attributes are floats, Each attribute column is separated by a tab

Write a C program to read the file and store and connect the LowerBound Marks and UpperBound Marks to the corresponding LetterGrade and GradePoint values and also store and print out the Corresponding LowerBound Marks and UpperBound Marks and LetterGrade and GradePoint values

Sl Roll CSE 101 CSE 102 CSE 103 CSE 104 CSE 105

1 MCE07905532 72 70 67 87 79

2 MSE07905536 55 75 72 72 74

3 MCE07905537 90 62 100 57 75

4 MCE08005540 66 67 81 51 92

5 MCE08005541 53 40 29 41 7

6 MCE08005542 69 66 90 99 54

7 MCE08005543 91 29 43 14 30

8 MCE08005544 54 53 73 71 65

9 MCE08005546 45 96 47 63 97

10 MCE08005547 52 29 79 80 40

In the SubjectMark.txt file

The first row is the attribute Row having 7 attribute columns

The first row is the attribute Row having Sl and Roll and Subject Names CSE 102 CSE 103 CSE 104 CSE 105 attributes, each attribute column is separated by a tab, Third to seventh column, SubjectName attributes have single spaces between them, but they should be considered one string or char array value.

SubjectName attribute values have single spaces between them, but they should be considered one string or char array value. Third to seventh column, SubjectName attributes have StudentSubjectMark values that are integers.

Then from the second row or line, separated by a single line afterward, all the rest of the text represents attribute values, Attribute values in the same row are also separated by a tab, and different rows are separated by a single line.

Write a C program to read the file and store and connect the Roll and SubjectName to corresponding StudentSubjectMark Marks, store them, and Print them

First-row first column is Roll, separated by a tab then there is 5 columns Sub1(3.0) Sub2(3.0) Sub3(2.0) Sub4(2.0) Sub5(2.0), each separated by tab, Sub1 is the subject name and (3.0)- the double inside the parentheses is the value of the credit hour of that subject 3.0 .. this is same for all of the second tho sixth column of the first row. The second-row first column MCSE0790556 is the roll and all the following 58 98 56 25 45 are five different marks of different subjects write a C program to read the file Character by character and output the desired variables

write and add code to the program to also store the Roll, Name from StudentInf.txt file the subject name, subject credit hours, and subject marks from SubjectMark.txt-- in separate variables, also print the variables in the console. in SubjectMark.txt file Roll Sub1(3.0) Sub2(3.0) Sub3(2.0) Sub4(2.0) Sub5(2.0) MCSE0790556 58 98 56 25 45 First-row first column is Roll, separated by a tab then there is 5 columns Sub1(3.0) Sub2(3.0) Sub3(2.0) Sub4(2.0) Sub5(2.0), each separated by tab, Sub1 is the subject name and (3.0)- the double inside the parentheses is the value of the credit hour of that subject 3.0 .. this is same for all of the second tho sixth column of the first row. The second-row first column MCSE0790556 is the roll and all the following 58 98 56 25 45 are five different marks of different subjects

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StudentInf.txt file content

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8 MCE08005544 Abdishakur Hussein

9 MCE08005546 Asad Ahmed Ali

10 MCE08005547 Hussein Ibrahim Ahmed

In the StudentInf.txt file

The first row is the attribute Row having Sl and Roll and Name attributes, each attribute column is separated by a tab

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Write a C program to read the file and store and connect the Roll to the corresponding Name values and also can store and print out the Roll and Corresponding Names

SubjectMark.txt file

Sl Roll CSE 101 CSE 102 CSE 103 CSE 104 CSE 105

1 MCE07905532 72 70 67 87 79

2 MSE07905536 55 75 72 72 74

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Also Assign 3.0 credit hour to each subject

Use functions-

/// Function to calculate GPA from marks

float calculateGPA(int marks) {

if (marks >= 80) return 4.00;

else if (marks >= 75) return 3.75;

else if (marks >= 70) return 3.50;

else if (marks >= 65) return 3.25;

else if (marks >= 60) return 3.00;

else if (marks >= 55) return 2.75;

else if (marks >= 50) return 2.50;

else if (marks >= 45) return 2.25;

else if (marks >= 40) return 2.00;

else return 0.00;

}

/// Function to calculate letter grade from marks

char calculateLetterGrade(int marks) {

if (marks >= 80) return "A+";

else if (marks >= 75) return "A";

else if (marks >= 70) return "A-";

else if (marks >= 65) return "B+";

else if (marks >= 60) return "B";

else if (marks >= 55) return "B-";

else if (marks >= 50) return "C+";

else if (marks >= 45) return "C";

else if (marks >= 40) return "D";

else return "F";

}

Write a C program to read the file and store and connect the Roll and SubjectName to corresponding SubjectMark Marks, and connect and store the Roll and connect to the corresponding Name values & store them, and Print them out the Roll and Corresponding Names, and subject Letter grades and CGPA

Output should also be printed to the student\_grades.txt file containing -

Sl Roll Name CSE 101 CSE 102 CSE 103 CSE 104 Earned Credit Hours GPA