Write a grading program that helps to determine your letter grade based on your exam score.

For example, when you put in exam score of 80, the program will determine you get a B. Please note the following:

1. Your letter will be determined by only one exam score.
2. The program will keep on prompting you to put more scores until you hit the E button on your keyboard.
3. The scoring standard:

A 90–100

B 80–89

C 70–79

D 60–69

F below 60

Your task:

1. Write pseudo code based on your analysis.
2. Write a java application program based on your pseudo code.

//pseudo code

//create a Boolean for the sentinel value of the running program

//create a Scanner obj to read in from the console

//note to user stating the program’s purpose and rules; for example, //System.out.println(“Welcome! Please input your exam score or type ‘E’ or ‘e’ to exit: //“);

//String score = user’s exam score (assuming positive whole numbers, including zero)

//score.toLowerCase() **- check score** for ‘e’

//pos/neg test cases for check – neg ends program

//start looping – while(score.charAt(0) != ‘e’)

//int result = (parse to int)score

//cascading if on result to discern appropriate letter grade and return that value to the user

//in the ‘else statement’ of the if – System.out.println(“Hi, again. Please input your exam score or type ‘E’ or ‘e’ to exit: //“);

**Note: I use pseudo code to ‘get me there’. I then write code and modify for compiler errors and to pass TDD tests (I didn’t write any tests for this particular project – see initial comments in code)**

/\*

\* Qtr: Autumn 2015

\* Class: CSC212

\* Professor: Dr. Julian Achim

\* Programmer: Odiscious Dozier

\* Date: 10/20/2015

\*

\* conditions: program expects all appropriate

\* input from the user via console input

\*

\*/

**import** java.util.Scanner;

**public** **class** ExamScore {

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

**boolean** stopped = **false**;

Scanner input = **new** Scanner(System.***in***);

System.***out***.println("Welcome! Please input your exam score or type ‘E’ or ‘e’ to exit: ");

String score = input.next();

**if**(score.toLowerCase().charAt(0) == 'e' )

{

System.***out***.println("End of line...");

**return**;

}

**while**(!stopped){

**int** result = Integer.*parseInt*(score);

**if**(result >= 90 && result <= 100)

{

System.***out***.println("A");

}

**else** **if**(result >= 80 && result <= 89)

{

System.***out***.println("B");

}

**else** **if**(result >= 70 && result <= 79)

{

System.***out***.println("C");

}

**else** **if**(result >= 60 && result <= 69)

{

System.***out***.println("D");

}

**else**

{

System.***out***.println("F");

}

System.***out***.println("Hi, again. Please input your exam score or "

+ "type ‘E’ or ‘e’ to exit: ");

score = input.next();

**if**(score.toLowerCase().charAt(0) == 'e' )

{

stopped = **true**;

}

}

System.***out***.println("End of line...");

}

}