1. Declare and initialize a string array that can hold 3 values. Populate the array with 3 names. Loop through the array and print out the three names. We didn’t write a string array in class, this would be an example string[] names = new string[3];
2. Declare and initialize an int array that can hold 8 values. Populate the array with 8 random “test scores”. Loop through the array and print out the scores.

Hint - See the guess the number game for an example of picking a random number from 1 to 100. You might consider modifying it slightly to restrict the range of scores to a more reasonable value (maybe nothing less than a 60)

1. Write a method called calculate average that takes an int array and calculates and returns the average of all the values contained in the array. Call it with the array from #2 above and print out the result.

Hint – remember that array index starts at 0 and goes until array.Length – 1

1. Combine all the above into a single program that prints out 3 students names, their test scores, and their averages. Create a string array with the student’s names as in #1 above, then Loop through the array and print the names and (in the loop) create an int array for each student’s scores as in #2. Print out each one’s test scores as in #2 and then print out each ones average as in #3.

Results of running your program might be something like:

Bob - 100 84 76 100 84 81 96 82 Avg: 87.0

Joe - 69 83 71 70 68 64 100 76 Avg: 75.0

Billy - 100 82 69 74 68 97 67 67 Avg: 78.0

1. Add another method that takes a grade as an int and returns an appropriate letter grade. Call this method with the average score of each student and add the letter grade to the print out.

Results might now look something like:

Bob - 96 88 61 95 96 96 69 82 Avg: 85 Grade: B

Joe - 68 88 84 61 95 80 64 85 Avg: 78 Grade: C

Billy - 90 97 98 67 99 73 99 98 Avg: 90 Grade: A

---- You only need to send me the final result program, not all the steps in HW from 1-5 -----

1. If you want for extra work you can create a card deck.

Create an array of 52 cards using two for-loops. A standard 52-card deck of playing cards has 13 ranks (Ace,2,3,4,5,6,7,8,9,10,Jack,Queen,King) and 4 suits per rank (Hearts, Clubs, Diamonds, Spades).

Print the cards, they should print for example a card as “Ace of Hearts”, “4 of Clubs”.

Then use Random to select a random card from the deck and print it.