For each problem below, create the pseudocode and program code solution.

Create a new repository in Github for Session 4. Upload Pseudocode and code the repository.

Post the link to Session 4 Assignment Upload link in Blackboard and paste the link into the text area after pressing the Write Submission button.

Problems

1. Read and study the various built in functions within your programming language. Create a problem and solution in both pseudocode and program code using at least one built in function.
2. The problem is to allow a user to enter student last name and two exam scores and determine a total score. Use a function to do this. The first exam score is worth 40% of the total score and the second exam is worth 60%.

Pseudocode

String studentLastname

Int examScore1

Int examScore2

Main

Declare(studentLastname, examScore1, examScore2, examTotal)

getWeightedScore(examScore1,examScore2)

WeightedScore

Int weightedScore1

Int weightedSocre2

Int examTotal

weightedScore1 = examScore1 \* 0.4

weightedScore2 = examScore2 \* 0.6

examTotal = weightedScore1 + weightedScore2

display (examTotal, examScore1, examScore2)

Your functions should receive the two exam scores by value, determine the total and return the total score.

Display the student last name, two exam scores and the total.

1. This problem entails allowing the user to enter the number of airlines tickets and cost per seat for a purchase. (We will assume all seats are the same price). You are to use a function that receives the number of tickets and price per seat and calculates the cost, tax (7% of cost) and total (cost + tax).

Int numTicket

Int seatPrice

Int taxRate

Int totalPrice

getTotalPrice (numTicket, seatPrice)

int totSeatPrice

totSeatPrice = numTicket \* seatPrice

int taxSeatPrice

taxSeatPrice = totSeatPrice \* taxRate

Your function should “return” the cost, tax and total. Therefore, you should pass these arguments by reference. The number of tickets and price per ticket can be passed by value.

Display number of tickets, price per ticket, cost, tax and total.