

Computer Programming (EE1005)

Homework #9

(Due: May 27)

10.10: The left-shift operator can be used to pack two character values into an unsigned integer variable. Write a program that inputs two characters from the keyboard and passes them to function **packCharacters**. To pack two characters into an unsigned integer variable, assign the first character to the unsigned variable, shift the unsigned variable left by 8 bit positions and combine the unsigned variable with the second character using the bitwise inclusive OR operator. The program should output the characters in their bit format before and after they are packed into the unsigned integer to prove that the characters are in fact packed correctly in the unsigned variable.