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Prof. Papademas

CSC\_204\_LAB\_010

**PROJECT 1 JAVA OUTPUT**

**Text

Description automatically generated**

**PROJECT 2 JAVA OUTPUT**

**Text

Description automatically generated**

**PROJECT 3 ASM OUTPUT (.asm source code in separate attached file in assignment dropbox)**

**Text

Description automatically generated**

**LAB QUESTIONS**

1. The provided code segment executes a simple for loop over the words array and prints each word, and then iterates again over the words to find the word with the max length (by using a temporary assignment to maxLength variable). The program output is as follows:

computer

storage drive

software

longest string: 'storage drive'

1. The provided code segments initializes an array for each letter in the word “history”, prints each letter in the array (“before copying”) in a for loop along with its index in the array, and then copies the last 5 items in the array into a new array (“story”) and then prints those in another for loop. The final output of the program is:

Array before copying:

Element at index 0: h

Element at index 1: i

Element at index 2: s

Element at index 3: t

Element at index 4: o

Element at index 5: r

Element at index 6: y

Array after copying:

Element at index 0: s

Element at index 1: t

Element at index 2: o

Element at index 3: r

Element at index 4: y

1. The arraycopy() method has five parameters: a source array to copy from, a specificed position to begin copying in the source array, a destination array to copy into, a specified position to begin copying into the destination array, and a length of items to copy.
2. MIPS does not use square brackets for arrays, but rather uses parentheses and a byte-addressable index (in increments of 4 bits).
3. The MIPS program given is a while loop over an array, which will end when the loop counter exceeds 4.