**COMP3315 Lab2: MIPS Branches and Loops**

26/09/2022

**Number and Name:**

1. **Object**: MIPS Branch and Loop examples using arrays
2. **Procedure**:

Write and run a MIPS algorithm that has an 9 element array at the data segment and the code finds the smallest element of the array using a loop and prints it. Write the C code first,then convert it to MIPS code and output in box below. Upload your “.docx” file with “.asm” file to submission area.

#include <stdio.h>

int main()

{

int array[9] = {3,5,8,7,2,9,12,4,15};

int lowest = array[0];

int i;

for (int i = 0; i < 9; i++) {

if(lowest > array[i]) {

lowest = array[i];

}

}

printf("%d", lowest);

return 0;

}