

26. WinMIPS64 Problems

Write each of the following MIPS programs in geany then run each solution through the winMIPS64 simulator.

1. Write a program that creates 2 variables num1 and num2 in memory with the values 5 and 6. Add the two values together and place the result in a memory location called result.
2. Write a program that creates a loop that counts from 1 to the number specified in a memory location called upper.
3. Write a program that computes the n^{th} Fibonacci number, where the 1st Fibonacci number is 0, the 2nd Fibonacci number is 1, the 3rd Fibonacci number is 1, and so on. The value for n is to be stored in a variable n . You should store the n^{th} Fibonacci number in a variable named fibn.
4. Create an array of 10 values from 1 to 10. Write a program that places the sum of the 10 values in a variable called sum.