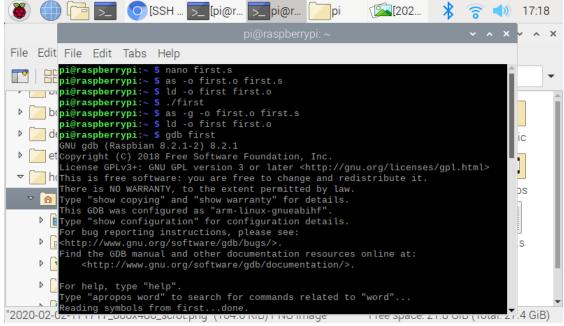
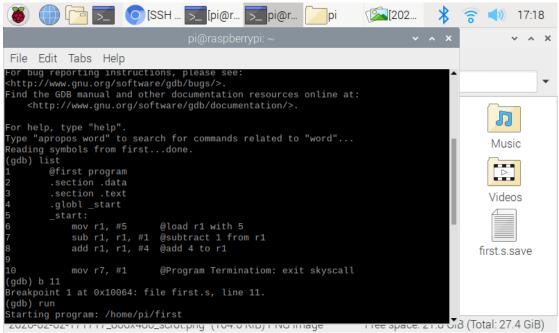


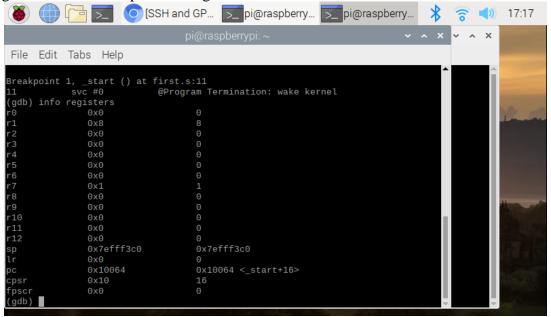
This is the source code for the first.s file in nano editor.



This is assembling the first.s file, linking it to get an executable, and running it using the ./ first command.



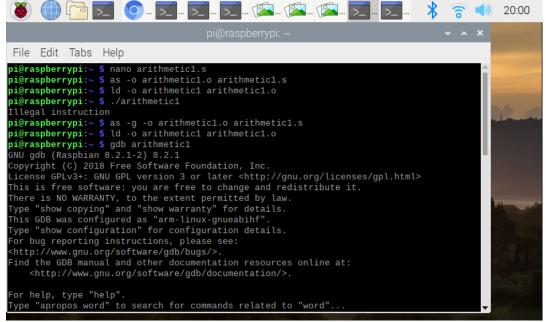
This is going to launch the debugger to link machine code to source code. With the command gdb 11, the code stops executing before line 11.



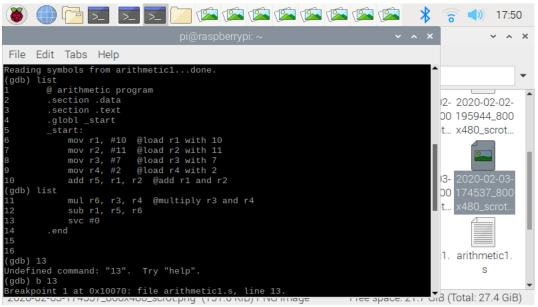
This examines the registers. All registers except r1 and r7 are empty. This is because the code loaded values (mov) only to r1 and r7.



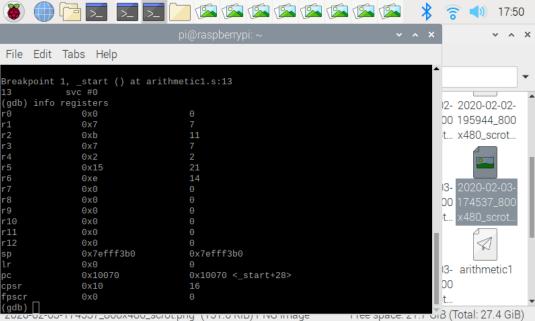
This is the source code for the arithmetic 1.s file in nano editor.



The arithmetic1.s file is being assembled, linked to get an executable, and run using the ./arithmetic1 function. It produces an "illegal instruction" error.



This is launching the debugger using the gdb arithmetic1 command. It set the breakpoint for line 13. It will allow the user to examine registers while the program runs.



This examines the registers while the program is running. R2-R4 are loaded with values (11,7,2) B, C, and D. It will perform the arithmetic operation (A+B)-(C\*D) which results in the final R1 value being 7. R5 contains the sum of A,B (11,10) which is 21. R6 contains the product of C,D (7,2) which is 14.