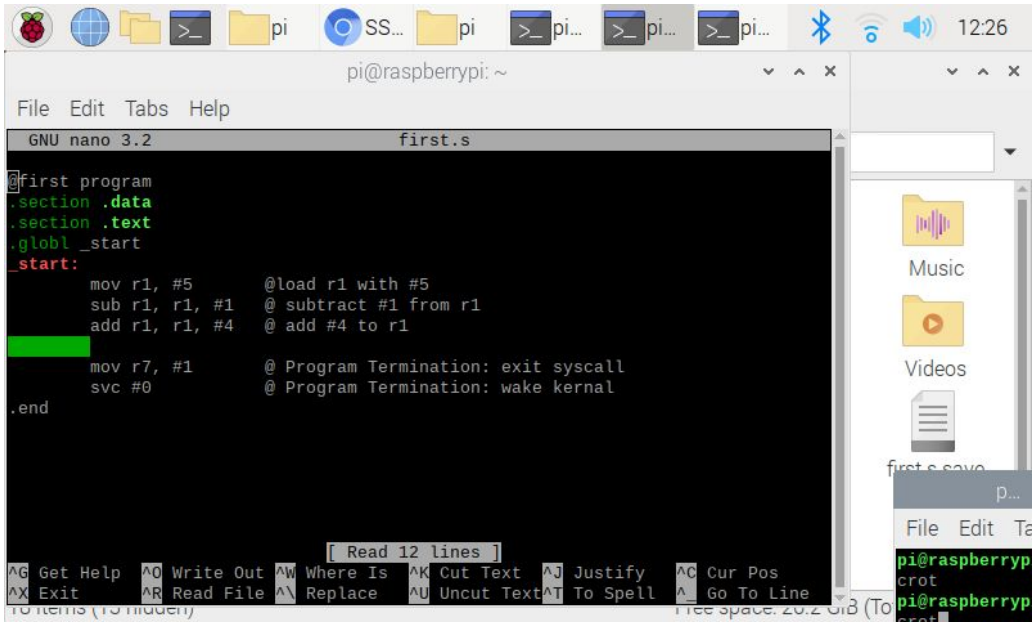
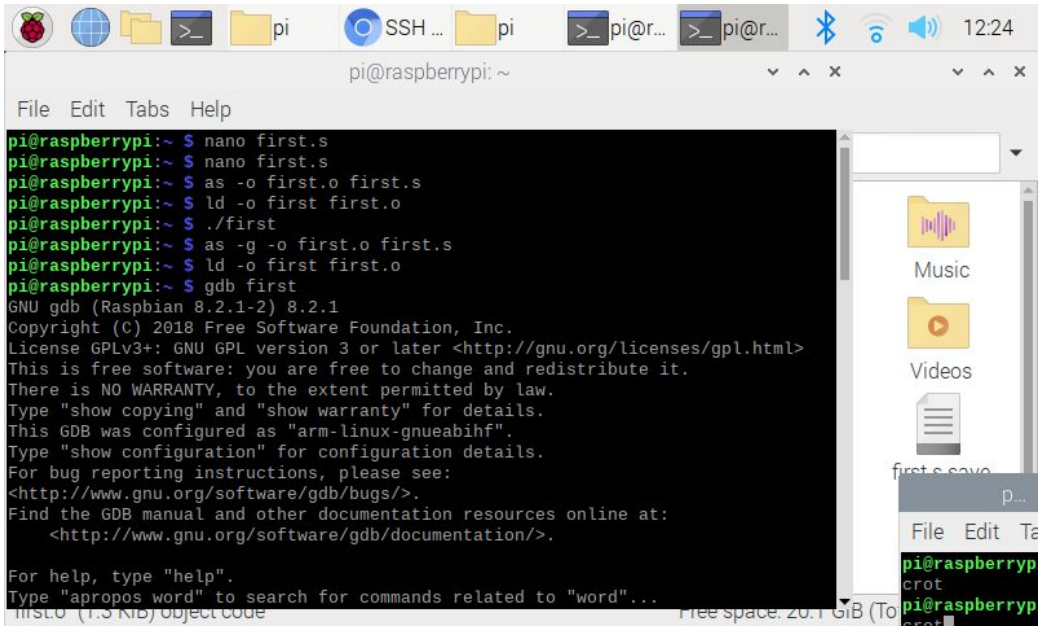
Matthew Maloof
Team x87

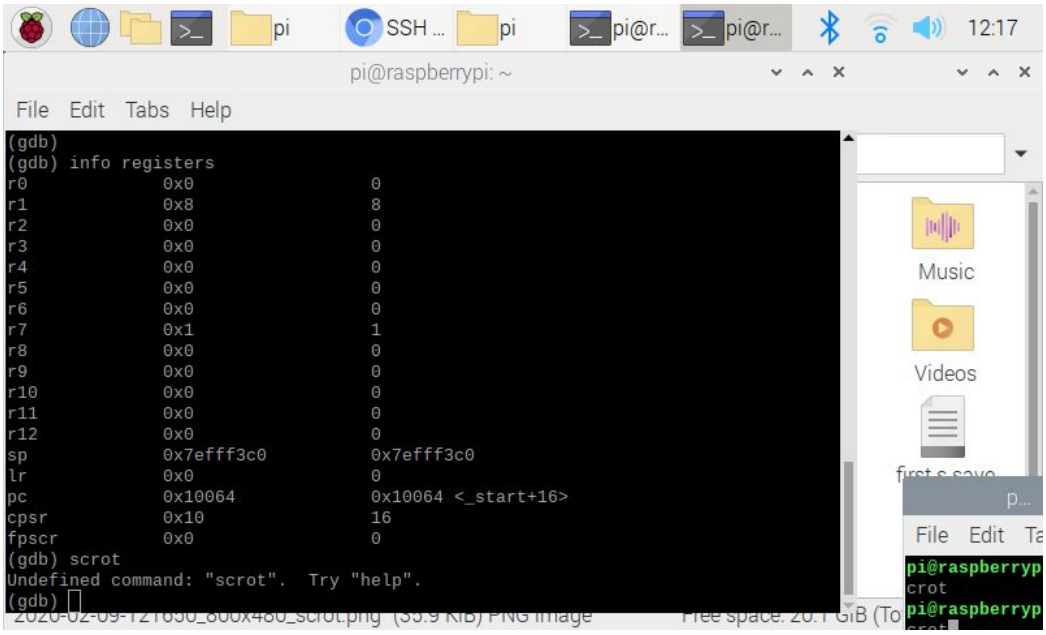
Part 4 Report

The first thing that I did was connect my Raspberry Pi to github and SSH. After doing so, I created a file first.s with the contents below and saved it. I ran the program using ./first and nothing was outputted because it doesn't produce an output without viewing the registers.

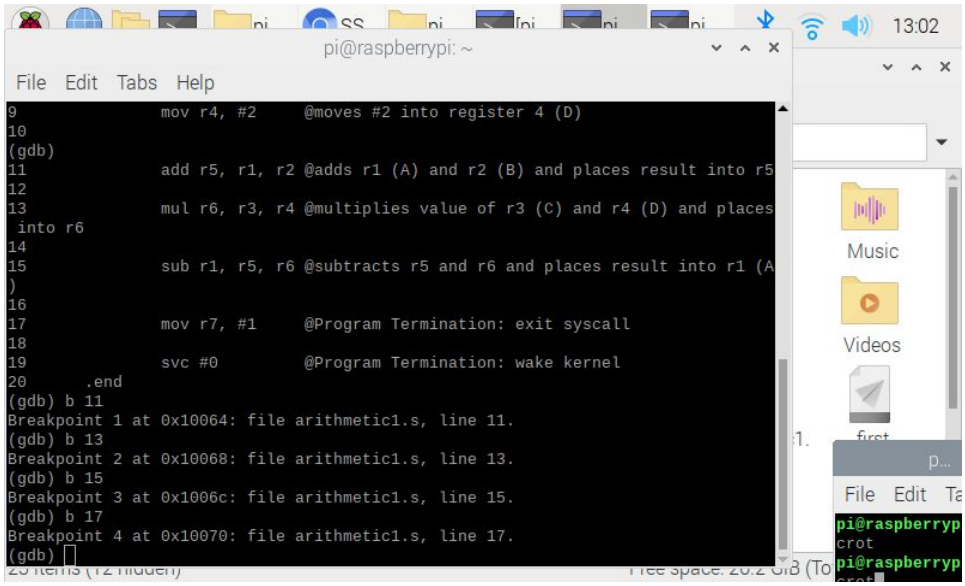




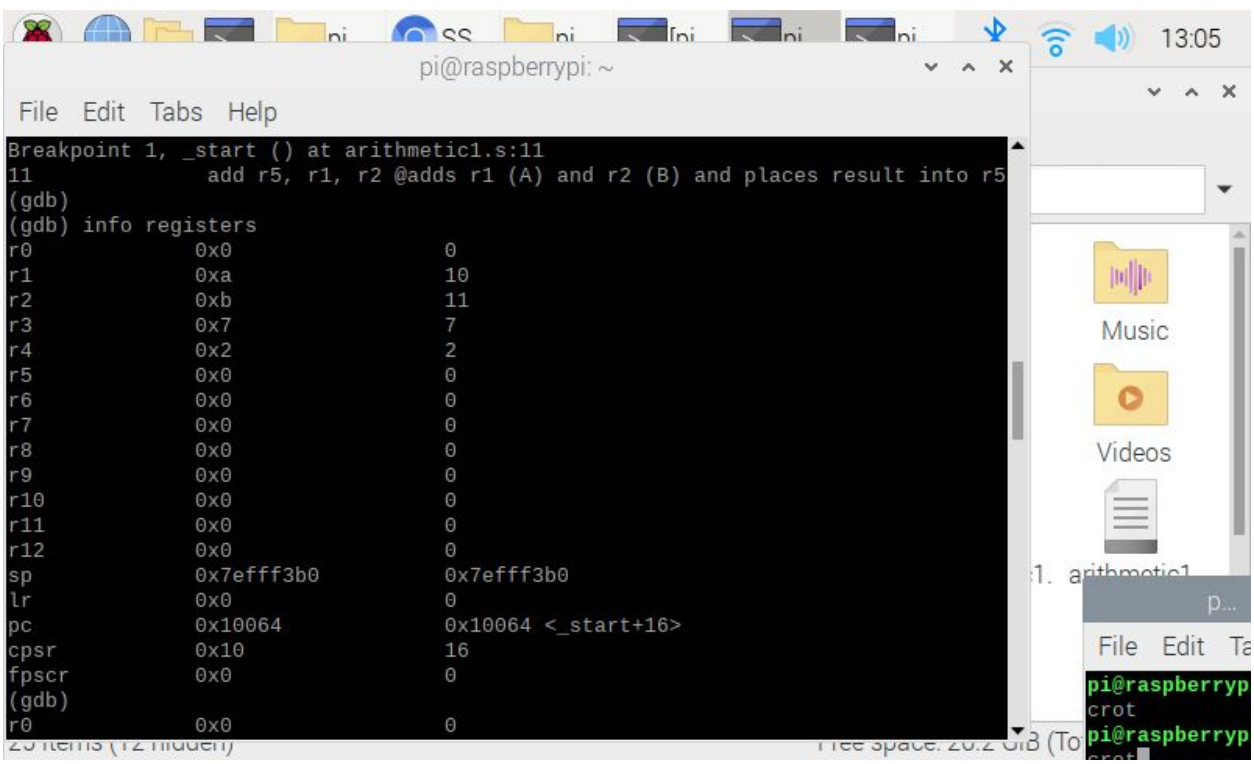
---- Next, I opened gdp with the file to debug the program and view the outputs. On the next page is the result of each output for the file "first".



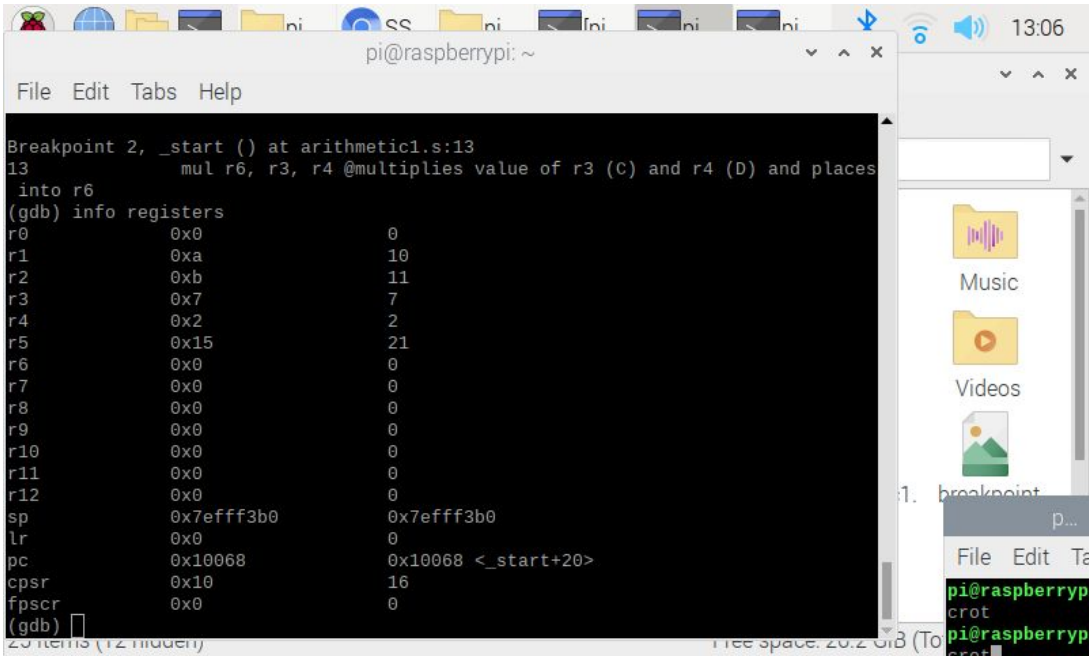
Above is the output shown during debugging. This ultimately shows a 1 for register 7.



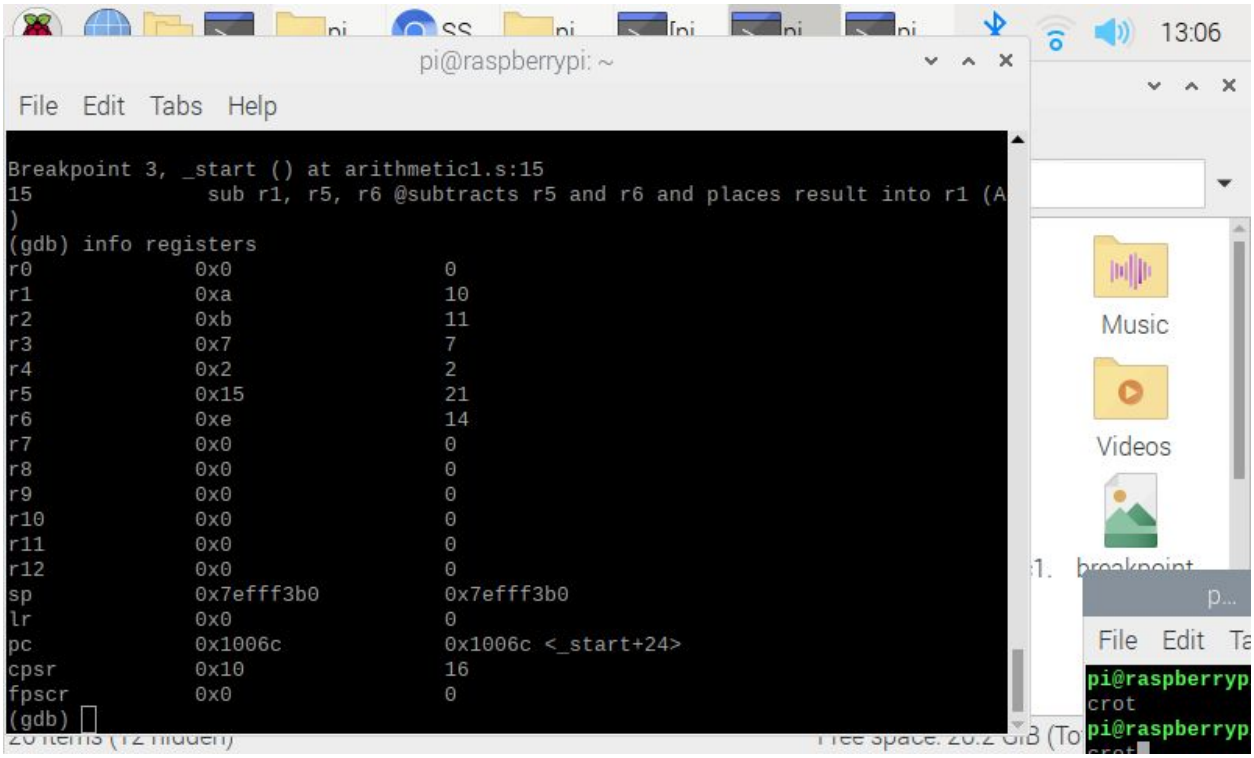
Next, breakpoints were set for lines 11, 13, 15, and 17 for part 2 of the assignment, with the creation of arithmetic1 program in the top of the screenshot.



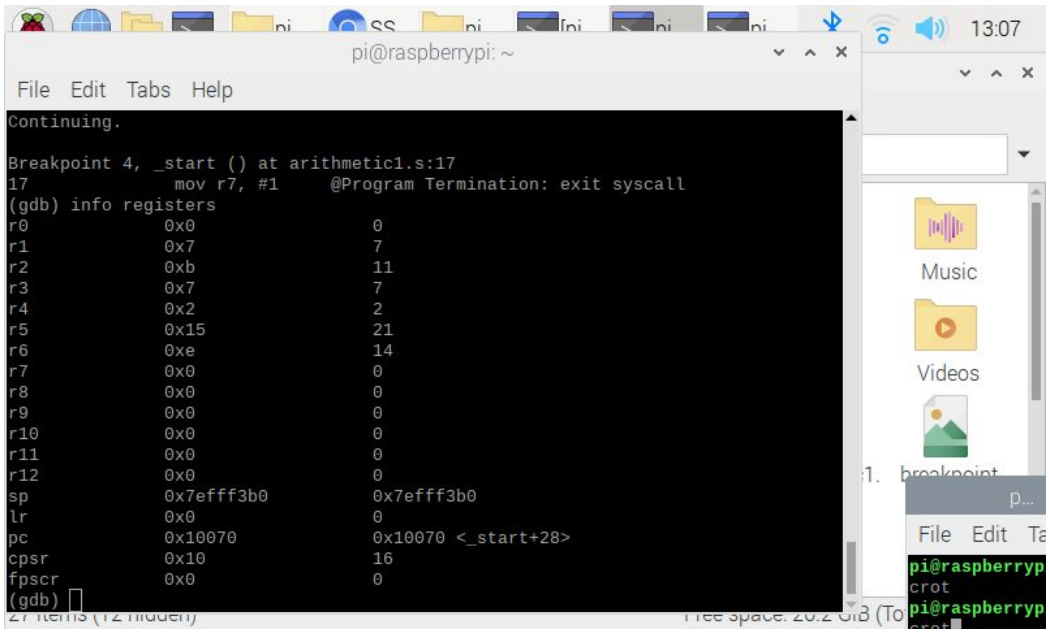
Breakpoint 1 is above, with it showing values A(10),B(11),C(7) and D(2) in registers 1, 2, 3, 4 respectively.



Breakpoint 2 above shows the addition being done between registers 1 and 2 and placing result in register 5. (10+11=21)



Breakpoint 3 shows the multiplication of registers 3 and 4 placing result into register 6 (7*2=14)



Finally, breakpoint 4 shows subtraction of register 6 and 5 to get the value of 7 placed in register 1. (21-14=7)