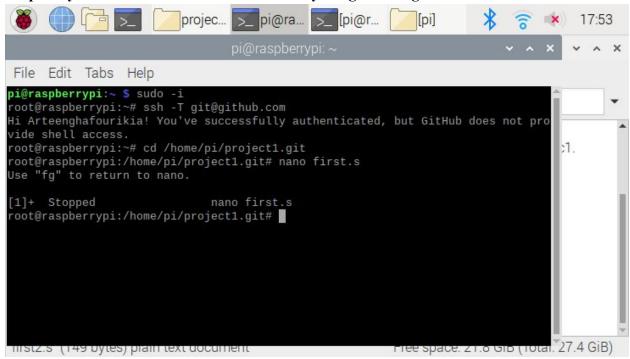


Planning and Scheduling:

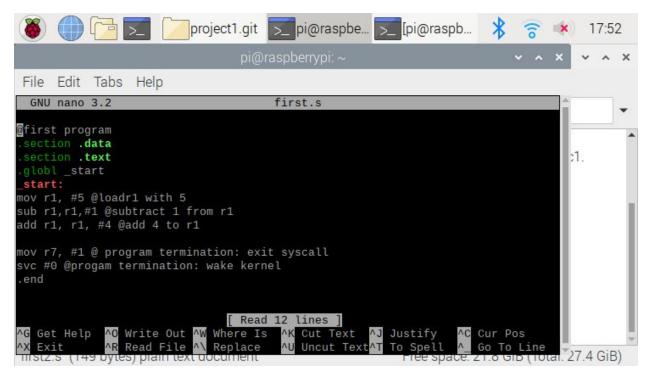
Assignee Name	Email	Task	Duration (hours)	Dependency	Due Date	Note
Alaya Shack	ashack1@st udent.gsu.ed u	Formulate the answers to the Teamwork Basics Document	2 hours	none	2/4	Review the teamwork document of all the team members. Proofread and provide corrections if needed. Discuss questions and answers as a group and agree to answers.
Miguel Romo	mromo1@st udent.gsu.ed u	Planning and scheduling as described in the assignment	30 mins	none	2/4	Update schedule as needed with duration of assignments and include notes of what member needs and if they did not participate.
Arteen Ghafourikia (Coordinator	aghafourikia 1@student.g su.edu	Create Github, connect Raspberry Pi to Github, write	6 hours	Github	2/4	Create an account and send member log-in information.

		assembly code and edit video				Assist members with help connecting Raspberry Pi to Github if needed. Edit video, and send link with log- in formation for youtube.
Joan Galicia	Jgalicia2@st udent.gsu.ed u	Creating the slack account as described in the assignment	3 hours	none	2/5	Add members to slack and notify them when completed. Remind members to add their intros to slack.
Andre Nguyenphuc	anguyenphu c1@student. gsu.edu	Technical writing (getting the report ready) as described in the assignment	1 hour	Report	2/10	Review report for any corrections needed

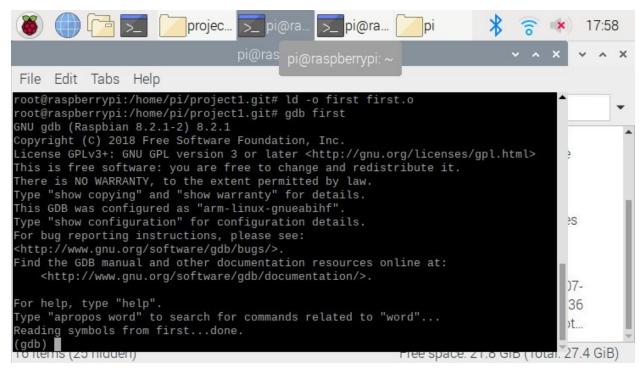
Raspberry PI Installation and ARM Assembly Programming: Arteen Ghafourikia



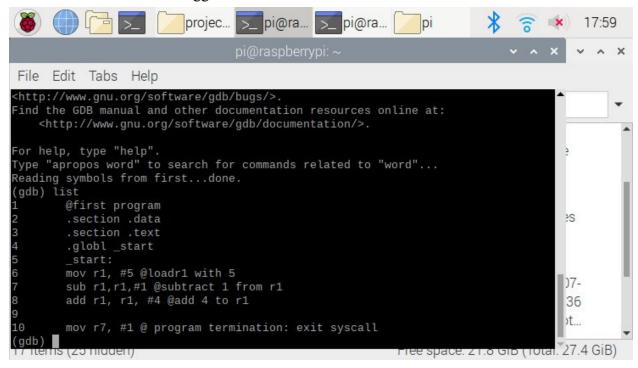
Over here I connected to the GitHub with SSH.



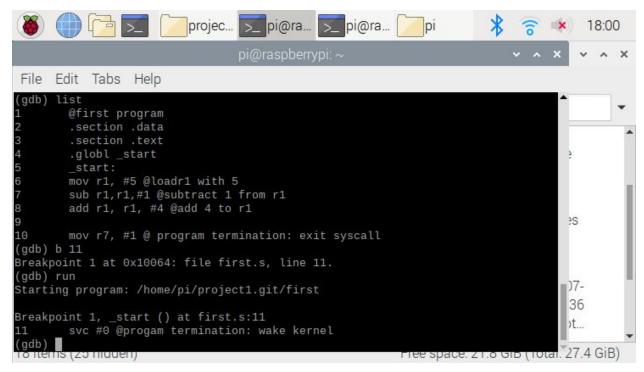
This is the code for the first.s program.



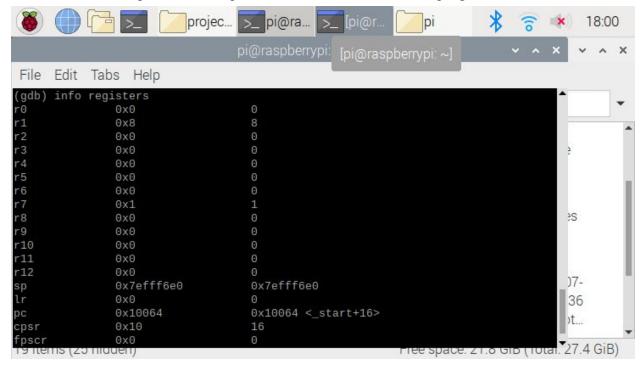
Over Here I assembled the file, created an objective file, and then linked to create an executable file. I then launched the debugger.



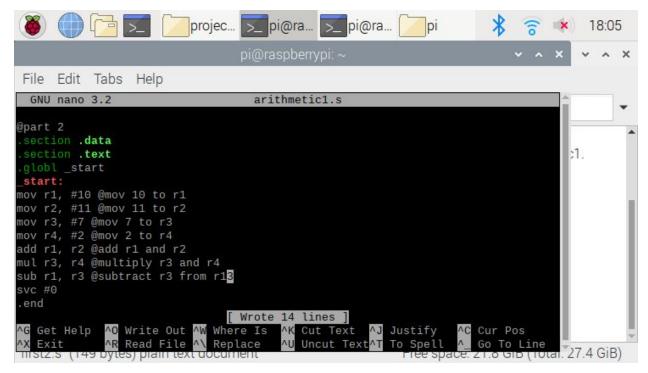
Using the GNU debugger I listed the first 10 lines of code from first.s.



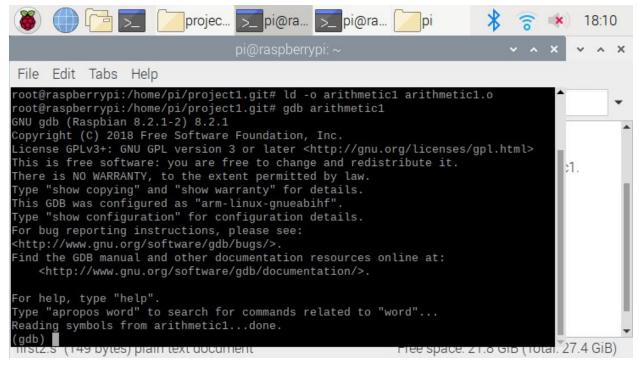
In this screenshot, I placed a breakpoint at line 11 and then ran the program.



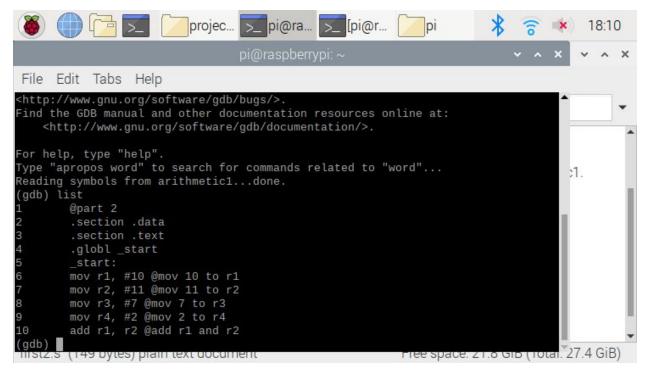
In this screenshot, I displayed the information in the registers. As you can see here in register 1 you have 8 as the value. The way this worked is that r1 had 5 in it. I then subtracted 1 and then added 4 to it which gives you the value 8. Register 7 also has 1 in it because the program moved 1 to Register 7.



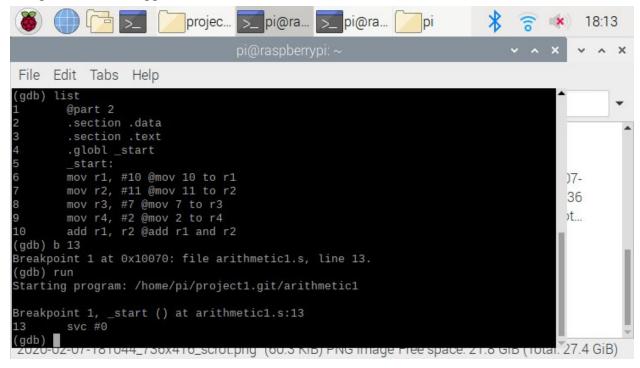
In part 2 this is the code for arithmetic1.s.



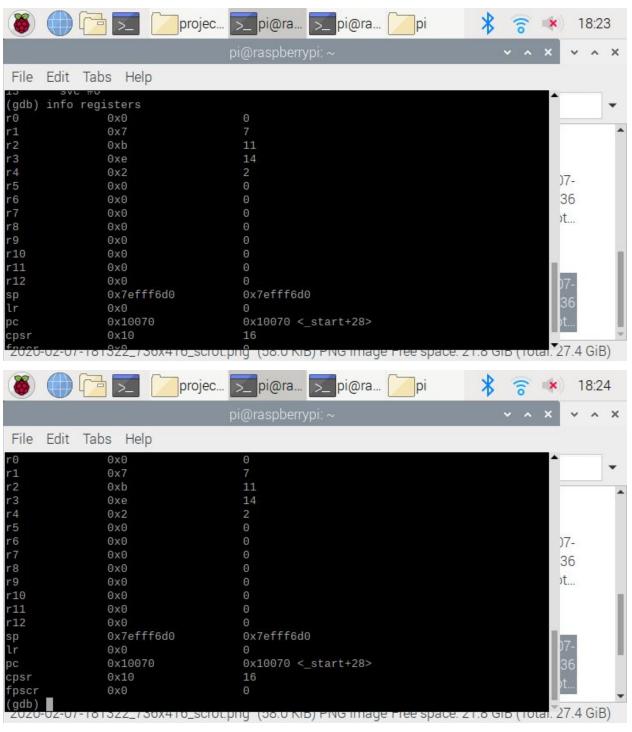
Over Here I assembled the file, created an objective file, and then linked to create executable file. I then launched the debugger.



Using the GNU debugger I listed the first 10 lines of code from arithmetic1.s.



In this screenshot, I placed a breakpoint at line 13 and then ran the program.



In these screenshots, I displayed the information in the registers. The goal of part 2 was to solve A=(A+B)-(C*D). A=10, B=11,C=7, D=2. In the code, I loaded one of the values in each register. I then added, multiplied, and subtracted accordingly which left me with 7 in Register 1 (A). (21)-(14)=7. I observed that each register that was used as a source retained its value. Only Register 3 and Register 1 changed in value because they were the only registers where I stored a value in the destination.

Teamwork Basics: Arteen Ghafourikia

• What to do to get the task accomplished and the team members' satisfaction high?

Make sure everyone is comfortable with what they are doing, and make sure that
people ask any questions they have. It is important that people communicate what
they want to get out of the assignment so everyone can benefit from it.

• Work Norms:

• How will work be distributed?

■ Work will be distributed based on what people want to do, and if we cannot reach a conclusion. We will distribute the work based on people's strengths and weaknesses to get the project done as efficiently as possible.

• Who will set deadlines?

■ The deadlines will be set by the group, however, we will make sure the deadlines are reasonable to the work that is being assigned.

• What happens if someone doesn't follow through on his/her commitment(for example misses a deadline)?

■ We will see if there is anything to do to help him/her finish before the main deadline and help them learn from their mistakes so they can get their work done sooner If they do not try, they will get a 0% from the other members for his/her effort.

• How will the work be reviewed?

■ We will each check each other's work to make sure that we turn something in that we would all be proud of.

• What happens if people have different opinions about the quality of the work?

- We will listen to each person's reasoning and turn in the quality of work that we would all be proud of.
- What happens if people have different work habits (e.g., some people like to get assignments done right away; others work better with the pressure of a deadline).
 - We will put deadlines that we all find reasonable and that gives us enough time to make last-minute changes if we need to do so.

• Facilitator Norms:

- Will you use a facilitator?
 - Yes, we will use a facilitator.

• How will the facilitator be chosen?

■ We will see who wants to be the facilitator, and if we can't come to a conclusion we will take a vote.

• Will you rotate the position?

- Yes, the facilitator will change.
- What are the responsibilities of the facilitator?
 - The Facilitator's responsibility is to keep the group on track and make sure people are getting their work done.

• Communication Norms:

- When should communication take place and through what medium (e.g., do some people prefer to communicate through email while others would rather talk on the phone)?
 - Communication should take place at all times, to make sure everyone is updated on what is going on and what needs to get done. This is a group project where everyone depends on each other to get a good grade, therefore everyone is responsible. It can take place through any medium, but we will choose a medium that works best for everyone.
- As a team selects two cases out of the four mentioned in handling difficult behavior. (use your own words and your own context)
 - Too quiet- If someone is shy or too quiet, we will do our best to make them comfortable and make it a friendly easy to talk to the environment.
 - Argues-If what the person is arguing is constructive, we will use it, but if he is just being aggressive and mean we will tell him/her to be less aggressive and that it is causing trouble for the team.
- When making decisions. If the team is having trouble reaching consensus, what should you do? (use your own words and your own context)
 - You should look at all the different options you can take logically and as a team you should determine which decision would be the best one to make.
- What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so?
 - We will wait and get input from everyone before we make a rash decision, to increase our probability of success.
- What happens if most people on a team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable?
 - We will discuss why the person would rather get a "B" than an "A" and if the person decides not to change his/her mind. We will tell him/her that it will bring the team down and if that does not work we will get a third party to help us come to a conclusion.

Teamwork Basics: Alaya Shack

• What to do to get the task accomplished and the team members' satisfaction high?

• In order to get the task accomplished and the team members' satisfaction high, the members of the group should become acquainted with each other and everyone's strengths, ground rules should be set, a facilitator should be used, lines of communication should be kept open, and we should know how to avoid or solve common problems associated with collaborative work.

• Work Norms:

• How will work be distributed?

■ Work will be distributed evenly amongst group members. Each task will have a primary person assigned and a secondary person, in case a person is not able to follow through with their commitment and to help with reviewing and clarifying questions. We will try to assign work based on everyone's strength. Also, we will ensure that the work is rotated so that everyone will have a chance to do different types of tasks.

• Who will set deadlines?

■ Each member will state their idea of a reasonable due date for each task, and we will discuss and vote on a particular date.

• What happens if someone doesn't follow through on his/her commitment?

■ If someone doesn't follow through on his/her commitment, we will discuss why they were not able to complete their commitment. Then, the secondary person on the assigned task and the remaining group members will work to complete the task. The person who does not follow through on their commitment will receive a 0% for their effort.

O How will work be reviewed?

■ Each task will first be reviewed by the secondary person. Then, as a group, we will review the tasks at our meetings.

• What happens if people have different work habits?

As long as each member gets their task accomplished by the assigned due date, the various work habits will have little to no significance. However, if a person likes to get things done early hinders or has a negative impact on the group, we will discuss alternatives or solutions to the problem. If a person that likes to procrastinate hinders the group, we will discuss how their behavior negatively impacts the group and discuss solutions to the problem.

• Facilitator Norms:

- Will you use a facilitator?
 - We will use a facilitator.
- How will the facilitator be chosen?

■ The facilitator will be chosen based on who volunteers for the position. If no one volunteers, the facilitator will be chosen through several rounds of rock paper scissors. Once a person has held the facilitator position, they will not be eligible for rock paper scissors or to volunteer.

Will you rotate the position?

■ The facilitator position will be rotated.

What are the responsibilities of the facilitator?

■ The facilitator is responsible for initiating the discussion, setting the agenda, keeping the team focused, making sure the team is progressing, ensuring every member is engaged, solving/ mollifying problems, summarizing the teams goals and decisions, and establishing a consensus among the group.

• Communication Norms:

• When should communication take place and through what medium?

Communication will primarily take place through text in our groupme, and we will communicate at our meetings, which will be held at least once a week. If more meetings are needed, we will add them to our schedule. We will communicate when we have made updates to tasks or ammended tasks and for clarity on a specific task or issue.

• Handling Difficult Behavior:

- o Too Quiet
- Argues

How the Person Acts	Description	What to Do	
Too Quiet	This person does not actively engage in the group. They are mostly silent through discussions. They may be timid or unsure of themselves.	Make this member feel comfortable, and let them know that the group values their input. Try to get them to come out of their shell by asking for their input on a specific idea or asking them a question about themselves.	
Argues	This person likes to argue for fun, and they are strongly opinionated . They find somebody to	If the person's feedback is constructive, then we should use their feedback to ensure that	

argue with every opportunity the group is together. They are constantly taking up the group's time with their arguments

we are completing quality work. However, if their feedback is negative, a discussion should be held with the facilitator so that the person will understand that their behavior is negatively impacting the group. The facilitator should let the person know that we appreciate their participation, but that their argumentative nature is not contributing to the success of the group.

• When making decisions, If the team is having trouble reaching consensus, what should you do?(use your own words and your own context)

o If the team is having trouble reaching consensus, we will first consider the importance of the decision. If the decision is not significant, we will listen to each other's viewpoints and make the best decision for the overall group. If the decision is significant, we will use multivoting. The process of multivoting will consist of gathering all the ideas that we have generated. Then, we will have each member choose their top four ideas. Once the top four ideas are selected by each member, we will see which ideas were voted for the most. Next, we will identify the similarities, differences, positive aspects, and negative aspects between the ideas that were voted for the most. Now, each member will vote for their top two choices, and we will review the votes to see which choice had the most support.

• What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so?

Of If a person reaches a decision more quickly than others and pressures people to move on, ideally, the facilitator would enlist everyone's viewpoint on the decision and check to see if there is a consensus among the group. Also, the facilitator will make sure that the group has completed prior tasks that are needed before advancing to another task.

- What happens if most people on the team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable?
 - o If most people on the team want to get an "A", but another person decides that a "B" will be acceptable, each member will share their viewpoints on the grade that they would like to receive and why they would like to receive that particular grade. Then, if the "B" team member outlook does not change, then we will continue to communicate about the issue if their behavior is a hindrance to the group, or the remaining members will find other solutions to the issue such as assigning simpler tasks to that group member or work together to raise that group member's quality of work.

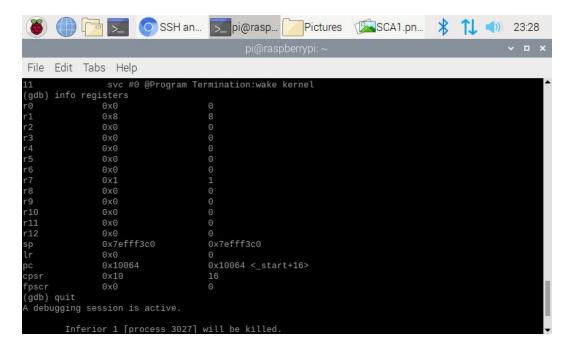
Raspberry PI Installation and ARM Assembly Programming:

Alaya Shack

This screenshot was after I typed in the command prompt "(gdb) first", and then I typed "(gdb) list" so that the debugger would list the first ten lines of code. Then, I typed "(gdb) list" again so that the next ten lines of code would display. This screenshot was for the "first" program.

```
SSH an... pi@rasp...
                                            Pictures SCA1.pn...
                                                                     23:24
File Edit Tabs Help
    "apropos word" to search for commands related to "word"...
Reading symbols from first...done
            mov r1,#5 @load r1 with 5
            add r1, r1, #4 @add 4 to r1
             mov r7,#1 @Program Termination:exit syscall
(gdb) b 11
Breakpoint 1 at 0x10064: file first.s, line 11.
gdb) run
Starting program: /home/pi/first
(gdb) quit
 debugging session is active.
```

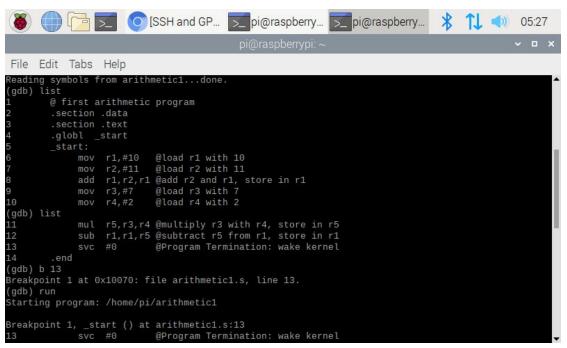
The second screenshot is when I inserted a breakpoint at line 11 of the first program. Next, I typed "(gdb) run" to actually run the program, and it also displays line 11 of the program. Then, I typed "(gdb) quit" to stop the debugging process.



The third screenshot displays the info registers after I typed the "(gdb) info registers" into the command line prompt. Register one has the value 8 because of the instruction add r1,r1, #4, which is adding the value that is already in r1(4) and the value 4 together, and then storing that result into r1. Register 7 (r7) has the value 1 displayed because of the move 1 into r7 instruction.

```
(SSH and GP...
                                                   > pi@raspberry... > pi@raspberry...
 File Edit Tabs Help
pi@raspberrypi:
pi@raspberrypi:~ $ ld -o arithmetic1 arithmetic1.o
pi@raspberrypi:~ $ gdb arithmetic1
 SNU gdb (Raspbian 8.2.1-2) 8.2.1
Copyright (C) 2018 Free Software Foundation, Inc.
 icense GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>
 his is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "arm-linux-gnueabihf".
Type "show configuration" for configuration details.
 or bug reporting instructions, please see:
 http://www.gnu.org/software/gdb/bugs/>
 ind the GDB manual and other documentation resources online at:
    <http://www.gnu.org/software/gdb/documentation/>.
 or help, type "help"
      "apropos word" to search for commands related to "word"...
 Reading symbols from arithmetic1...done.
 gdb) list
          @ first arithmetic program
           qlobl
                    start
```

The fourth screenshot is of the instructions so that the first arithmetic program will be assembled, and then linked to the file to get an executable. The third line is typing the debugging command for my arithmetic1 program.



The fifth screenshot is using the "(gdb) list" command to display the first ten lines of code. Then, the second "(gdb) list" displays the next ten lines of code/the rest of the code. In my code, I inserted comments with the "@" to explain what the instructions do. Also, I inserted the breakpoint at line 13. Then, I did "(gdb) run" to start the debugging process.

```
SSH and GP..
                                                                                * 1 (a) 05:29
                                         pi@raspberry...
                                                            pi@raspberry.
File Edit
           Tabs Help
(gdb) b 13
Breakpoint 1 at 0x10070: file arithmetic1.s, line 13.
(gdb) run
Starting program: /home/pi/arithmetic1
Breakpoint 1, _start () at arithmetic1.s:13
                           @Program Termination: wake kernel
(gdb) info registers
              ΘхΘ
               0x7
               Oxb
               0x7
               0x2
               0x0
               0x0
               0x0
               0x0
                                   0
0x10070 <_start+28>
```

The sixth screenshot is of the registers. In r1, the value is 7 because the value in r5(14) was subtracted from r1(21), which equals 7. In r2, the value is 11 because 11 was loaded into r2. In r3, the value is 7 because the value 7 was loaded into r3. In r4, the value is 2 because the value 2 was loaded into r4. In r5, the value is 14 because the values in r3(7) and r4(2) multiplied are 14, and that value had to be loaded into its own register(r5) or there would be an error message.

```
SSH and GP...
                                                                                                05:30
                                         pi@raspberry...
                                                             pi@raspberry...
File Edit Tabs Help
Breakpoint 1, _start () at arithmetic1.s:13
                            @Program Termination: wake kernel
(gdb) info registers
               0x0
               0x7
               0xb
               0x7
               0x2
                                    14
               0xe
-6
-7
-8
               0x0
               0x0
               0x0
               0x0
10
               0x0
               0x0
r12
               0x0
                                    0x7efff3b0
               0x7efff3b0
               0x0
                                    0x10070 < start+28>
               0x10070
               0x10
fpscr
               0x0
(gdb) quit
 debugging session is active.
```

The seventh screenshot is of the registers, and then quitting the debugging process.

Teamwork Basics: Andre Nguyenphuc

• Work Norms:

- How will work be distributed?
 - The tasks will be distributed evenly among the group members and will also be distributed based on their strength/knowledge of the task. For example if someone knows how to shoot and edit videos then they will be assigned to do the video task for the project.
- Who will set deadlines?
 - Everyone will come together and discuss the best date deadline by suggesting dates and voting which date will work fairly for everybody.
- What happens if someone doesn't follow through on his/her commitment?
 - The person who did not follow through on his/her commitment will get a 0% on their contribution to the group and will have to explain why they did not follow through so the same does not happen for the next assignments
- Our How will work be reviewed?
 - As a group everybody will review all the tasks to make sure the task is complete and correct

• What happens if people have different work habits?

■ If the task is accomplished then the work habits does not matter as long as it does not negatively affect the way other group members work on their tasks

• Facilitator Norms:

- Will you use a facilitator?
 - Yes a facilitator will be used
- How will the facilitator be chosen?
 - The facilitator is chosen by whoever wants to be the facilitator if there is no one who wants to be it then we will vote
- Will you rotate the position?
 - Yes the position will be rotated
- What are the responsibilities of the facilitator?
 - The responsibilities include have the team focus on the task, make sure every team member is participating in discussions, reminding all the team members on the agreed-upon time for meetings and deadlines, when something is stalled suggest alternatives, help team members confront problems, and summarize and clarify the team's decisions

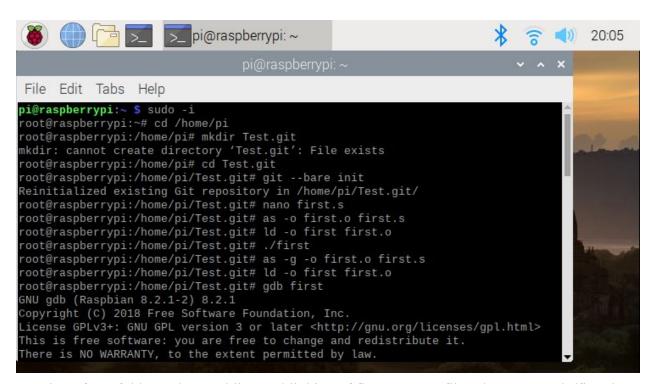
• Communication Norms:

- When should communication take place and through what medium?
 - Communication will mainly take place in whichever medium the group agrees on and should always be taking place so that everyone is well informed about any questions or problems that occur
- As a team selects two cases out of the four mentioned in handling difficult behavior. (use your own words and your own context)
 - Too quiet Try to include the person in the conversation by asking them questions or getting them to participate in tasks that they know how to do
 - Argues If what they person is saying is constructive and overall seems like it could help then the group should consider their opinion however if it seems just negative then the facilitator should inform them that their actions is only negatively impacting the group which would decrease the quality of the group's work
- When making decisions, If the team is having trouble reaching consensus, what should you do?(use your own words and your own context)
 - If the team can not reach a consensus then I believe as a group consider everybody's opinion and do a vote to see what the group believes will benefit the

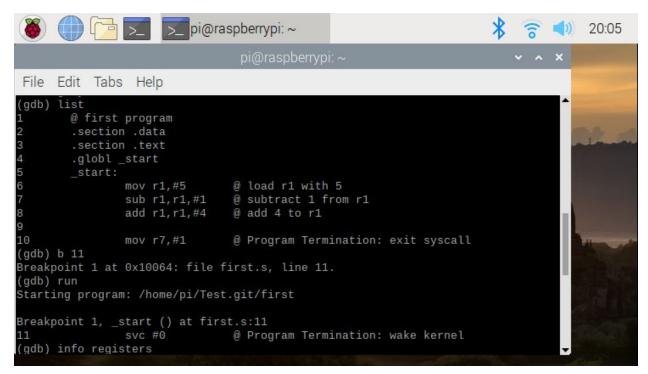
project. If there is still no decision then team coordinator should decide what is best for the project.

- What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so?
 - If they pressure other people the facilitator should let them know how their pressure is negatively affecting the group and that rushing people to make decisions could lead to bigger problems
- What happens if most people on the team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable?
 - We will tell the person who wants a B instead of an A how an A is better for the overall group and if they still do not change their mind. As a group try to find solutions that will please everyone such as either giving the B person less tasks to do or deducting points from them during the evaluation.

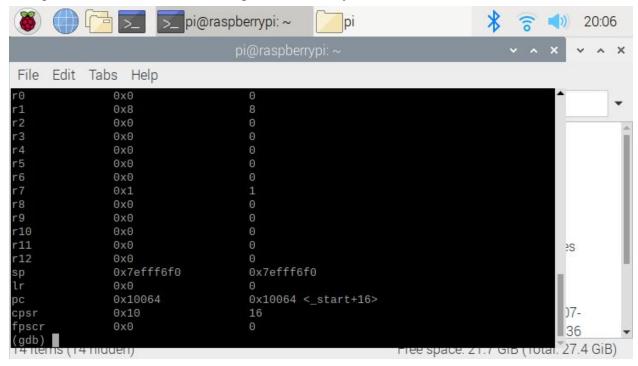
Raspberry PI Installation and ARM Assembly Programming: Andre Nguyenphuc



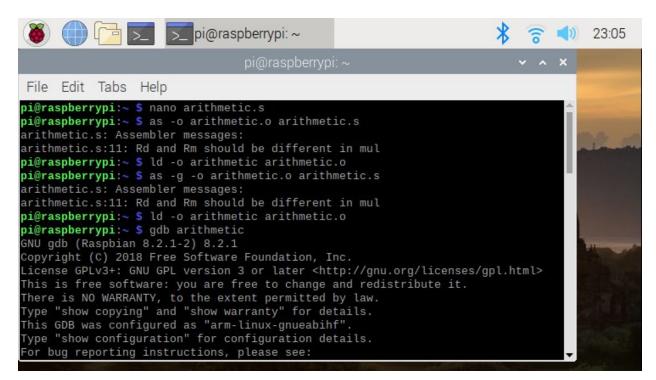
Creation of test folder and assembling and linking of first program file. The command ./first does not run the file because it is not debugged yet



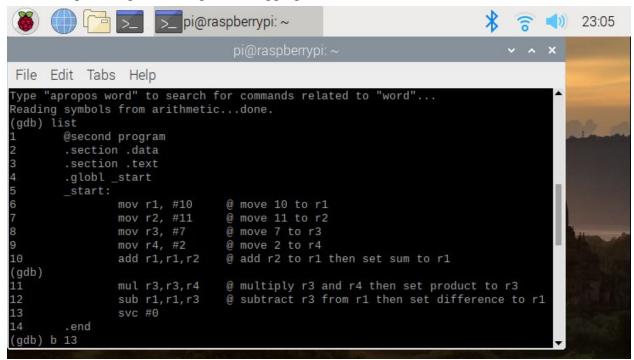
Did (gdb) list to list the first 10 lines of the code. Code for first program file had to include a breakpoint so we can examine the register or memory



Info in the registers include 8 being in r1 and 1 being in r7 because we substracted 1 from r1 whose initial value was 5 and then we added 4 to r1 which makes the value in r1 8. For r7 we moved the value of 1 to r7 in line 10.



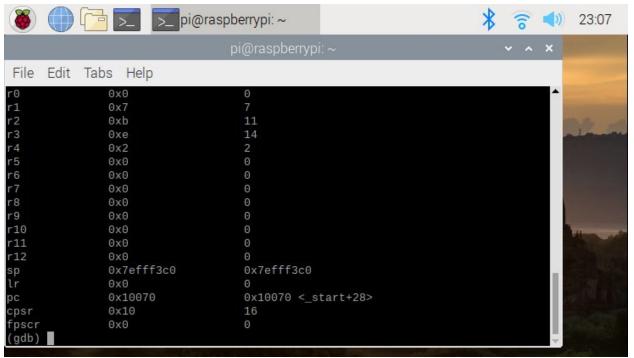
Assembling, linking, and doing the debugging command for the arithmetic file



Code for the arithmetic program. Setting values to different registers then using different arithmetic to get the answer for A(r1). Also using (gdb) list to list the first 10 lines of code then hitting enter to list the rest of the lines of code. I first did the add command to r1 and r2 which is 21 and set that value to r1. I then multiplied r4 to r3 which made me get 14 and I set the product

to r3. I then subtracted r3 from r1 (21-14) and got 7 then set the answer to r1 which shows in the register.

Setting a breakpoint at line 13 so we can examine the registers or memory and running the program



R1 changed because I set the total answer to r1 and r3 changed because I set the product of r3 and r4 to r3. R2 and r4 values remained unchanged because I did not set any values to them besides their initial values.

Teamwork Basics: Joan Galicia

- What to do to get the task accomplished and the team members' satisfaction high?
 - Meet together in person and make a plan of who does what task, create a good working environment so people can ask for help, create a deadline for the people to complete their tasks.

• Work Norms:

- How will work be distributed?
 - Work will be distributed evenly and on a volunteer basis if more than one person wants the task we collectively as a group decide who gets it based on their strengths and weaknesses.
- Who will set deadlines?
 - As a group we will all set a certain deadline for when we should have most of our work done.
- What happens if someone doesn't follow through on his/her commitment(for example misses a deadline)?
 - The person should contact us in time for this type of issue because it can be resolved easily before the due date. Although if this is not the case and we are approaching a deadline we will consult as a group and decide whether the person who cannot commit deserves the low satisfaction report.
- O How will the work be reviewed?
 - Each person takes a turn looking at a section of the work and writing down whether there is an issue after everyone has reviewed each section of the tasks given.
- What happens if people have different opinions about the quality of the work?
 - Everyone should take into consideration the quality and as a group we should decide if it should be redone with assistance from everyone or convince the person with a different opinion that it is to our standard.
- What happens if people have different work habits (e.g., some people like to get assignments done right away; others work better with the pressure of a deadline).
 - Habits can be changed with time. It's only as long as the group continues to cooperate with each other that we can finish the assignment on time. If a habit is causing issues in the group then we will all come together to set aside our differences and adapt to each other's habits.

• Facilitator Norms:

- Will you use a facilitator?
 - Yes
- How will the facilitator be chosen?
 - If no one volunteers then we take a vote on someone and when another project come around we take turns being the facilitator
- Will you rotate the position?
 - yes
- What are the responsibilities of the facilitator?
 - This person's responsibility is to keep the group focused by keeping us on the same agenda, and summarizing what we have done in the group so far. This person is also in the group to support everyone and in-turn we should do the same for the facilitator

• Communication Norms:

- When should communication take place and through what medium (e.g., do some people prefer to communicate through email while others would rather talk on the phone)?
 - Our main medium for conversation takes place through phone messaging as that is what we have decided. If we need to send some work information we decided to do that through email and give notice to the group as a whole.
- As a team selects two cases out of the four mentioned in handling difficult behavior. (use your own words and your own context)
 - Too quiet Create a friendly environment and invite this person to share their opinions on the task. Continue doing this until the person is comfortable without drawing them out.
 - Argues A person who argues is not a bad thing as this person can be used to question what we are doing and allow us to better handle a task together. As long as other person is not affecting the group negatively there is no main issue, but if there is we as a group would talk to the person to calm them.
- When making decisions. If the team is having trouble reaching consensus, what should you do? (use your own words and your own context)
 - As a group we will decide everything collectively and for everyone to get a chance to voice their decision, I would pinpoint the main objective and compare everyone's decision and give the pros and cons.
- What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so?

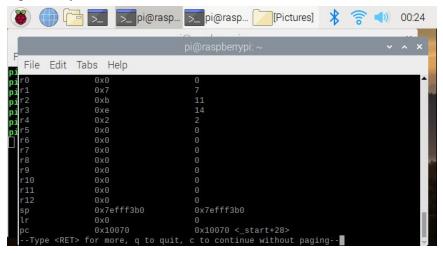
- If the person is still pressuring the group to move on as a group we will calm the person down and evaluate how negatively he.she is affecting productivity by making us speed up.
- What happens if most people on a team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable?
 - The person who considers B to be an acceptable grade will not give his/her full effort on the project. It is best that as a group we decide to convince him to put an effort in getting an A. His/her lack of effort may just come from the difficulty of asking for help and as a group we are here are everyone.

Teamwork Basics: Joan Galicia

Arithmetic1

In this screen shot i am already in the GDB debugger and am displaying the contents of my code for the first part of the project, First.s

I have added my breakpoint to line 13 of my code as a breakpoint has to be place after my last operation. Once this was done, I then typed run and then checked the info registers to find which register my value was stored under.

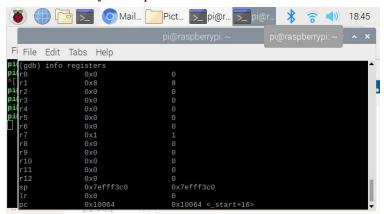


This shows the rest of my info registers and the answer to the prompt given in the project was to perform an arithmetic operation where the value is stored in register 1.

First

```
pi@raspberrypi:  pi@r... pi@r.
```

This is a screen shot of the first program done on the raspberry pi where I am already in the debugger and have shown the contents of my code. It also displays that i have set a breakpoint at line 10 after my last operation.



This screenshot is to show the registers and their contents. The value shown in register 1 is 8 because that is the value from the code

Teamwork basics: Miguel Romo

What to do to get the task accomplished and the team members' satisfaction high? Two things get accomplished in good teams: the task gets accomplished and the satisfaction of team members is high.

Work Norms: How will work be distributed? The work will be shared, with equal shares being distributed throughout the group.

Who will set deadlines? The group will come to a decision on deadlines and make sure everyone is in agreement.

What happens if someone doesn't follow through on his/her commitment (for example, misses a deadline)? We will discuss as a group why the deadline was not met and help the individual catch up. If they refuse to help then they will not receive credit for the work.

How will the work be reviewed? There will be a second person reviewer followed by the group overview

What happens if people have different opinions about the quality of the work? The team will talk about the work and decide if the work needs to be redone.

What happens if people have different work habits (e.g., some people like to get assignments done right away; others work better with the pressure of a deadline). Different work habits are not an issue as long as they don't affect the overall group deadline. If the habits do affect the team, then as long as we are kept in the loop with the progress we can still talk about the issue and help the person complete the task earlier.

Will you use a facilitator? Yes, we will.

How will the facilitator be chosen? Whomever volunteers for the position can be the facilitator.

Will you rotate the position? The position will rotate for every project.

What are the responsibilities of the facilitator? The responsibilities of the facilitator are Focus the team on the task get participation from all team members, keep the team to its agreed-upon time frame, suggest alternative procedures when the team is stalled, help team members confront problems, and summarize and clarify the team's decisions.

When should communication takes place and through what medium (e.g., do some people prefer to communicate through e-mail while others would rather talk on the phone)? Groupme will be the source of the team's communication.

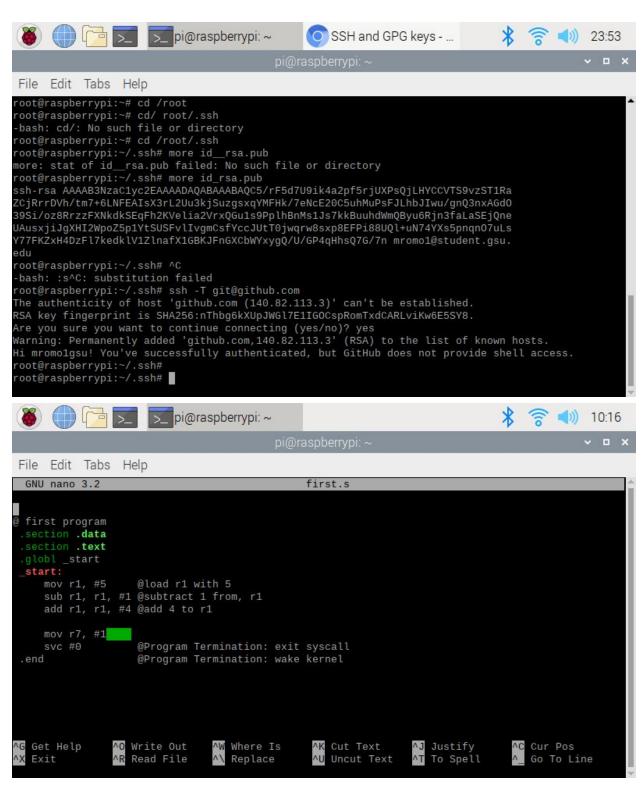
As a team, select two cases out of the four mentioned in Handling Difficult Behavior: Too quiet - the person doesn't like to share or does not want to share. A way to solve this is by making the member feel included and reassuring them that no idea is bad. Argues - the person is being difficult when ideas are presented and alternative solutions are not offered. A way to solve this is to offer their own solutions when criticizing other ideas.

When making decisions, If the team is having trouble reaching consensus, what should you do? If this happens, we will determine if the decision needs to be voted on. If it is important that we will vote on a decision that is the best compromise.

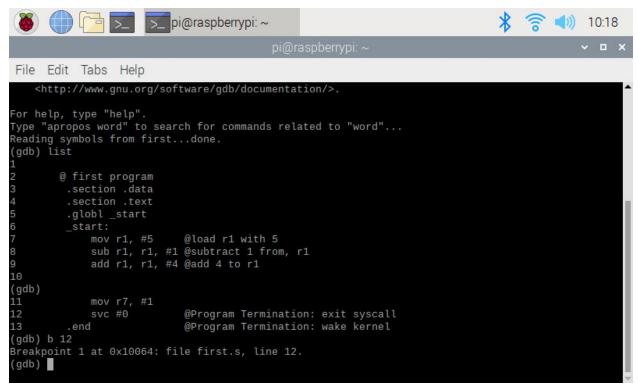
What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so? It will be the facilitators responsibility to ensure decisions are not made too quickly.

What happens if most people on the team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable? If this happens we can talk as a group and we can explain why they want that particular grade and try to communicate why they want the grade they want.

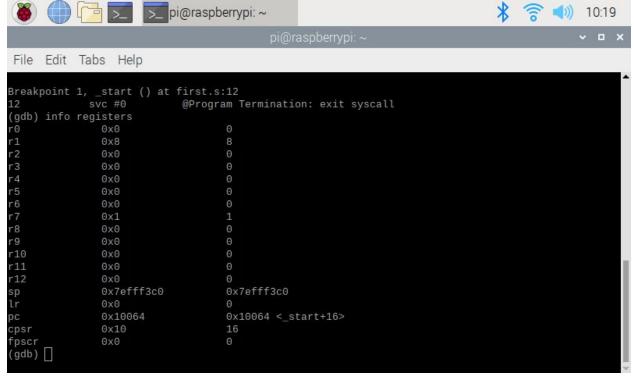
Raspberry PI Installation and ARM Assembly Programming: Miguel Romo



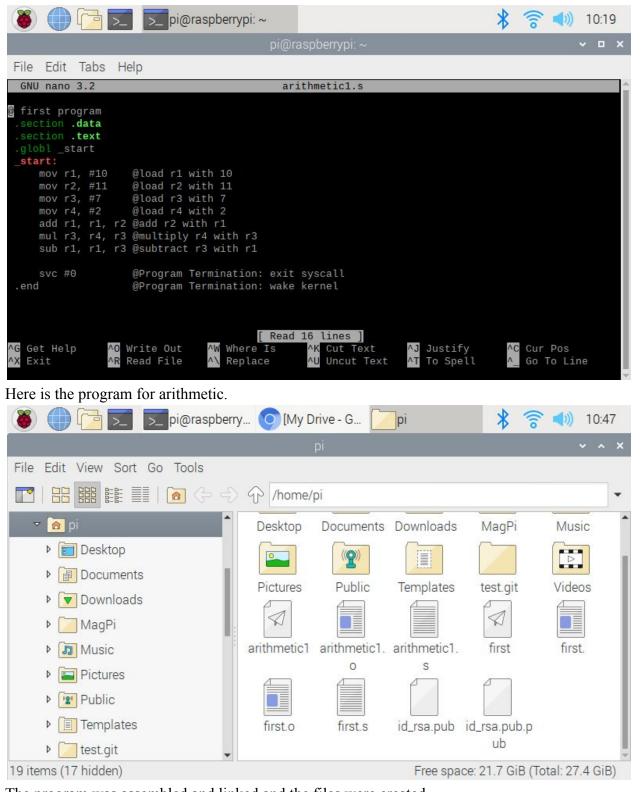
Code for the First program



Program launched in the debugger and a breakpoint set to line 12.



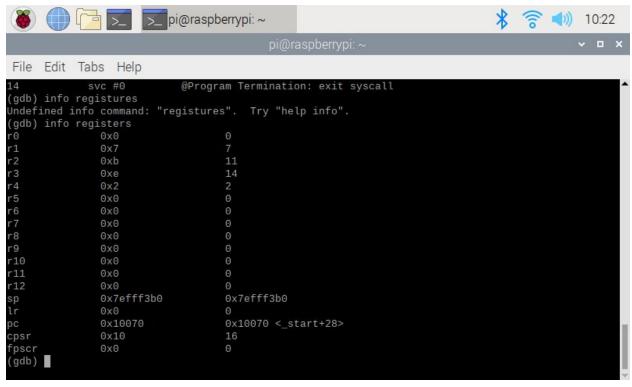
After we run the program we look at the registers to observe the contents. Here register r1 has a value of 8 because we subtracted 1 from the value in r1 and added 4. A result of 8 was stored in r1.



The program was assembled and linked and the files were created.

```
pi@raspberrypi: ~
                                                                                      (10:21
File Edit Tabs Help
Type "apropos word" to search for commands related to "word"...
Reading symbols from arithmetic1...done.
gdb) list
       @ first program
        .section .data
        .globl _start
        _start:
                           @load r1 with 10
                           @load r2 with 11
                           @load r3 with 7
                           @load r4 with 2
10
            add r1, r1, r2 @add r2 with r1
(gdb)
            mul r3, r4, r3 @multiply r4 with r3
11
            sub r1, r1, r3 @subtract r3 with r1
14
            svc #0
                           @Program Termination: exit syscall
         .end
                           @Program Termination: wake kernel
16
(gdb) b 14
Breakpoint 1 at 0x10070: file arithmetic1.s, line 14.
(gdb)
```

The debugger is opened to observe the memory, and study the registers. A break point is added at line 14.

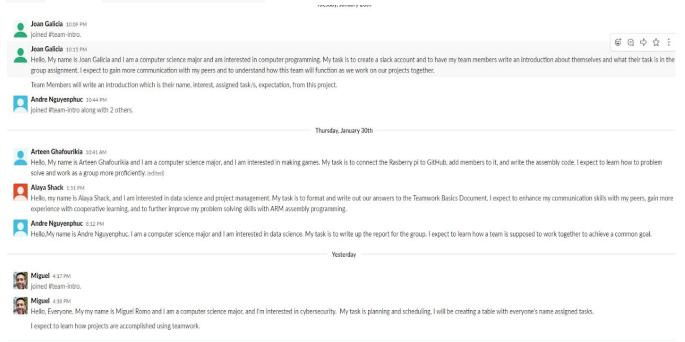


In the info register window we see what values are registers hold. R1 had the value of 7 because we added 11 to the initial value in register r1, which was 10. Finally we subtract the value of r3

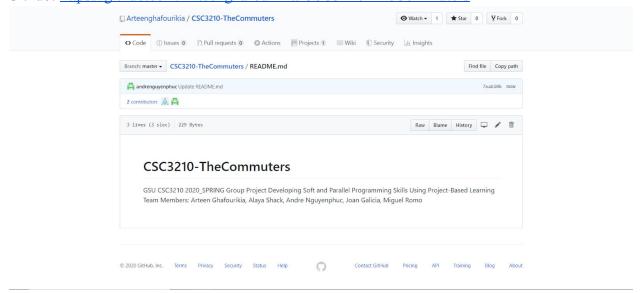
from r1, 21 - 14, which is 7. R2 & r4 holds the initial values we stored in it using "mov", r3 had the value of 7, but now hold 14, since we multiplied 7 * 14.

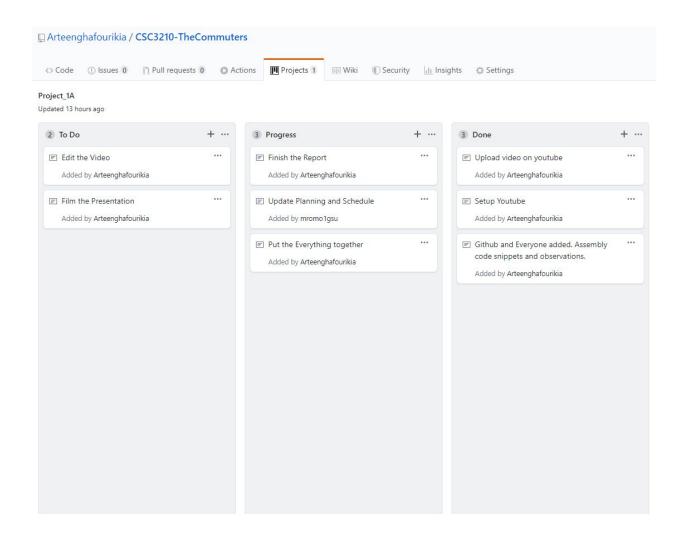
Appendix:

Slack: the-commuters.slack.com



Github: https://github.com/Arteenghafourikia/CSC3210-TheCommuters





Youtube Video

https://www.youtube.com/watch?v=0b5vlos9Q54