Developing Soft and Parallel Programming Skills Using Project-Based Learning

Fall 2019

Group Name: Kenny and the rest

Group Members: Abdiaziz Dakane, Soojie Chin, Nish Patel, Brett Krokoff, Kehinde Adedara

For planning and scheduling we had to ask for everyone's schedules and what time would work for them. The first time we met we discussed which team members would be in charge of which roles, and what potential times we could meet in the future to work on all the tasks together. This part was the most challenging for our group due to the fact that everyone's schedule rarely aligned. We ended up meeting most days after class to complete the tasks, however we could only do that for a short amount of time, since other classes would get in the way. Even with time constraints, our group was still able to pull through and complete every task together successfully and efficiently. We also planned to finish most of our work a decent amount of time before the deadline, so that we weren't rushing to complete the project and didn't run into any technical or scheduling issues that could set us back. Together, everyone was able to complete their assigned task, and respond in a timely manner to each other, which allowed us to complete this project without any interferences.

For the teamwork basics we all sat around a table and answered them together. Nish led the conversation and typed the document while we all discussed the prompts and answered together. We agreed that the team coordinator would handle all deadlines and who did what tasks so that there would be no confusion between the group. We also went over what we were okay with in the group, such as eating, smoking, being late, and someone dominating a discussion, and we all agreed on ways to handle issues when they arise. Together, we established some basic team rules and guidelines so that we can keep team satisfaction high and get the tasks accomplished.

For the raspberry pi installation, we let Kehinde lead that because he had the proper tools needed to install the raspberry pi. After completing the raspberry pi instruction, and installation process, we were able to interact with the OS directly through the raspberry pi terminal. The second step in the instruction introduced us to how the raspberry pi processes registers and convert files from nano text editor to object file, and then Executable file. We also observed the run time complexity of the raspberry pi, and the steps it takes to transfer and process data as well as the setup it takes to accurately write a code. We have ran into multiple situations in which the raspberry pi wouldn't execute the code because of all "illegal instruction" , or wrong register called.

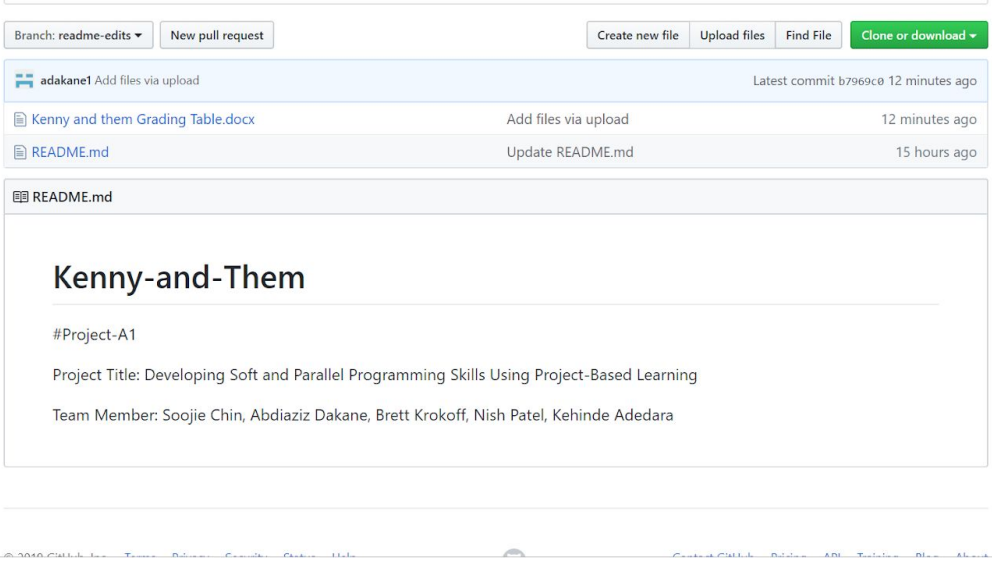
Appendix

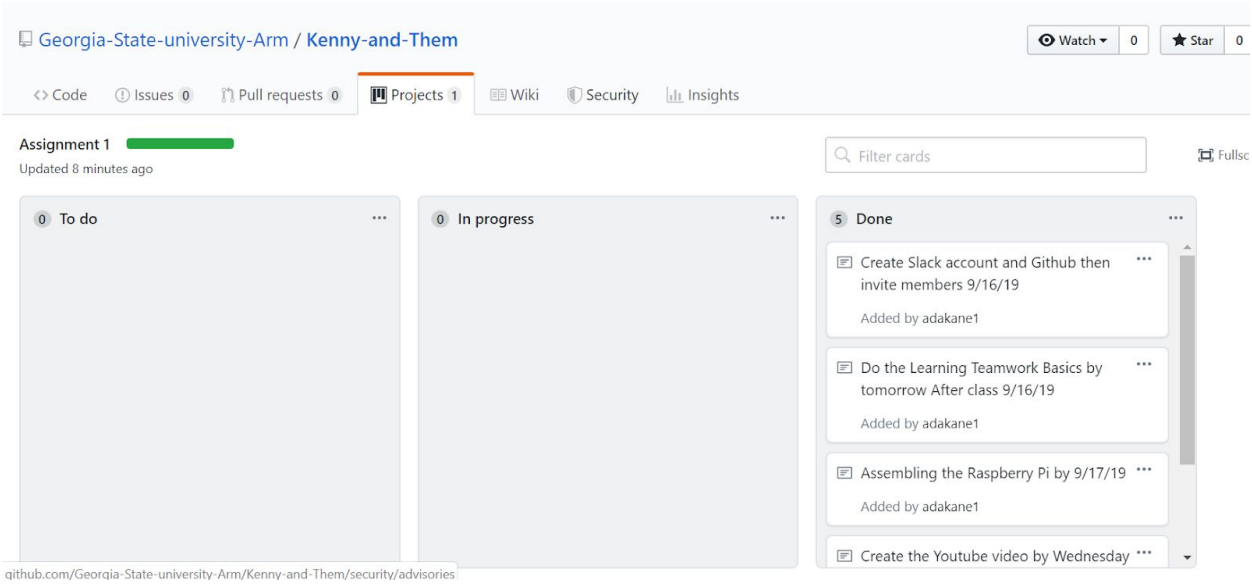
Task 1:

Kenny and them Planning

Name	Email	Task	Duration (Hours)	Dependancy	Due Date	Note
Abdiaziz Dakane (Group coordinator)	Adakane1 @student.gsu.edu	Creating Github, Slack, and organizing group.	2 Hours	Receiving the Raspberry Pi	09/16/20	Should have everything ready for my team members to do project in time 100%
Brett Krokoff	Bkrokoff1 @student.gsu.edu	Make the report and the technical writing	1.5 hour	Depending on slack being done and github	09/19/20	Receive all the information prior a day before the due date 100%
Sopjie Chin	Schin6 @student.gsu.edu	Directing the youtube video and uploading it	2-6 Hours To render video	Everyone being there for the video	09/18/20	Conduct the video two days prior due date and find time that works for everyone 100%
Kehinde Adedara	Kadedara1 @student.gsu.edu	Assembling the Raspberry Pi	2-3 hours	Group coordinator to hand Raspberry Pi	09/17/20	Make sure the Raspberry is done in time and have a screenshot of it ready 100%
Nish Patel	Npatel1161 @student.gsu.edu	Conducting question in the learning teamwork basics and helping other members	2 Hours	Depending on whether the group	09/18/20	Ask all the question every member and find everyone schedule 100%

Task 2: https://github.com/Georgia-State-university-Arm/Kenny-and-Them





Brett Krokoff 12:44 AM
Name: Brett Krokoff
Task: in charge of writing the report
Interest: I'm interested in learning everything there is to know about computers so I can excel in the computer science industry.
Expectations: I expect to become familiar with the hardware of the computer and how it functions as well as how to use a raspberry pi so I can better understand the layers there are to the code we write.

Kenny 10:59 AM
Name: Kehinde Adedara
Task:

Kenny 11:04 AM
Name: Kehinde Adedara
Task: In charge of Program setup and Installation
Interest: I am interested in innovating microprocessors and A.I which is part of my research.
Expectation: To master the Raspberry Pi board microprocessor, and learning how to control data usage for accessibility and efficiency.

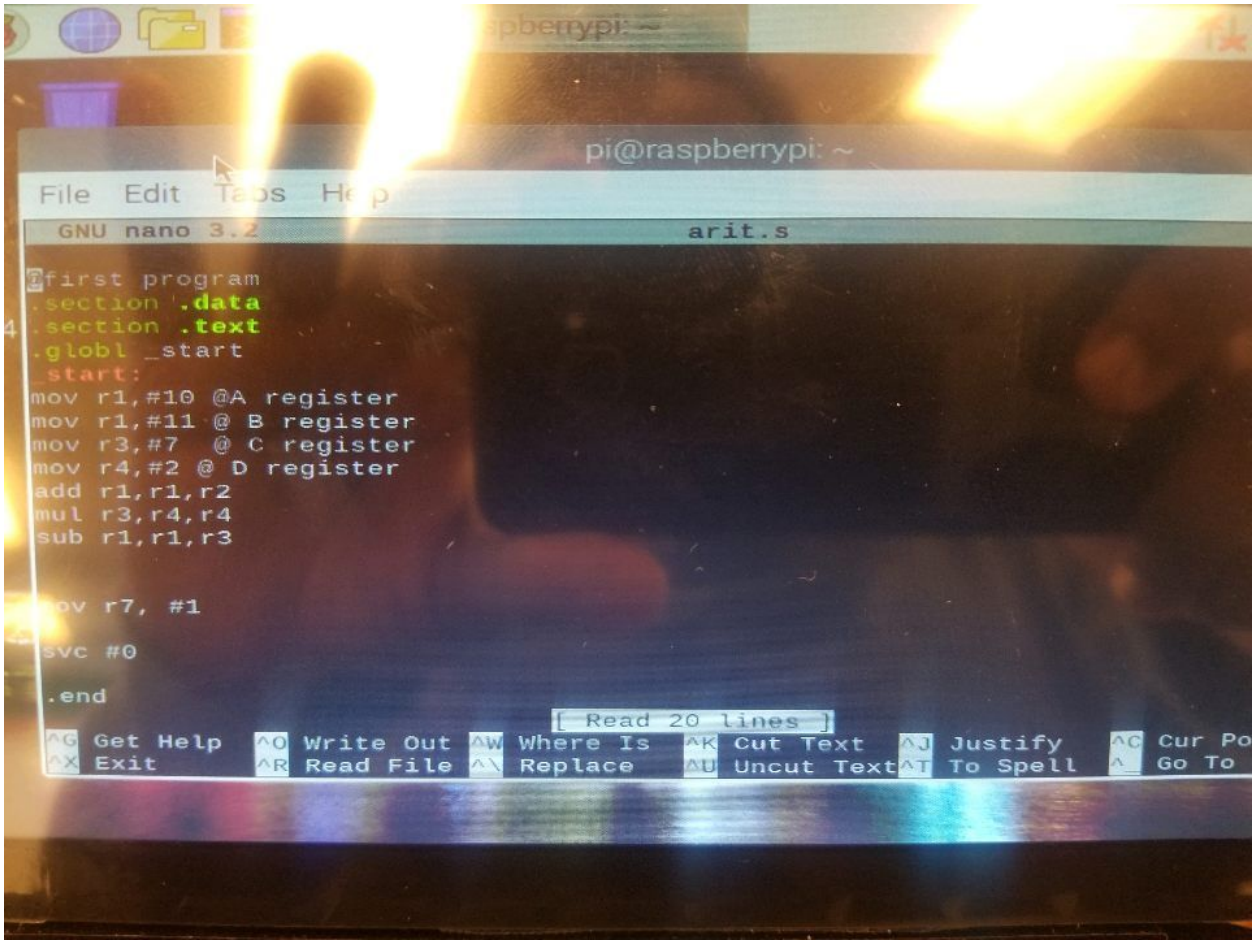
abdiaziz dakane 12:10 AM
Member Introduction: Name: Abdiaziz Dakane. Task: Group Coordinator and responsible for creating Slack and Github for group members also creating table. Expectations: My expectation from this project is to learn the basics of Raspeberry Pi and learn my group members and being able to work together.

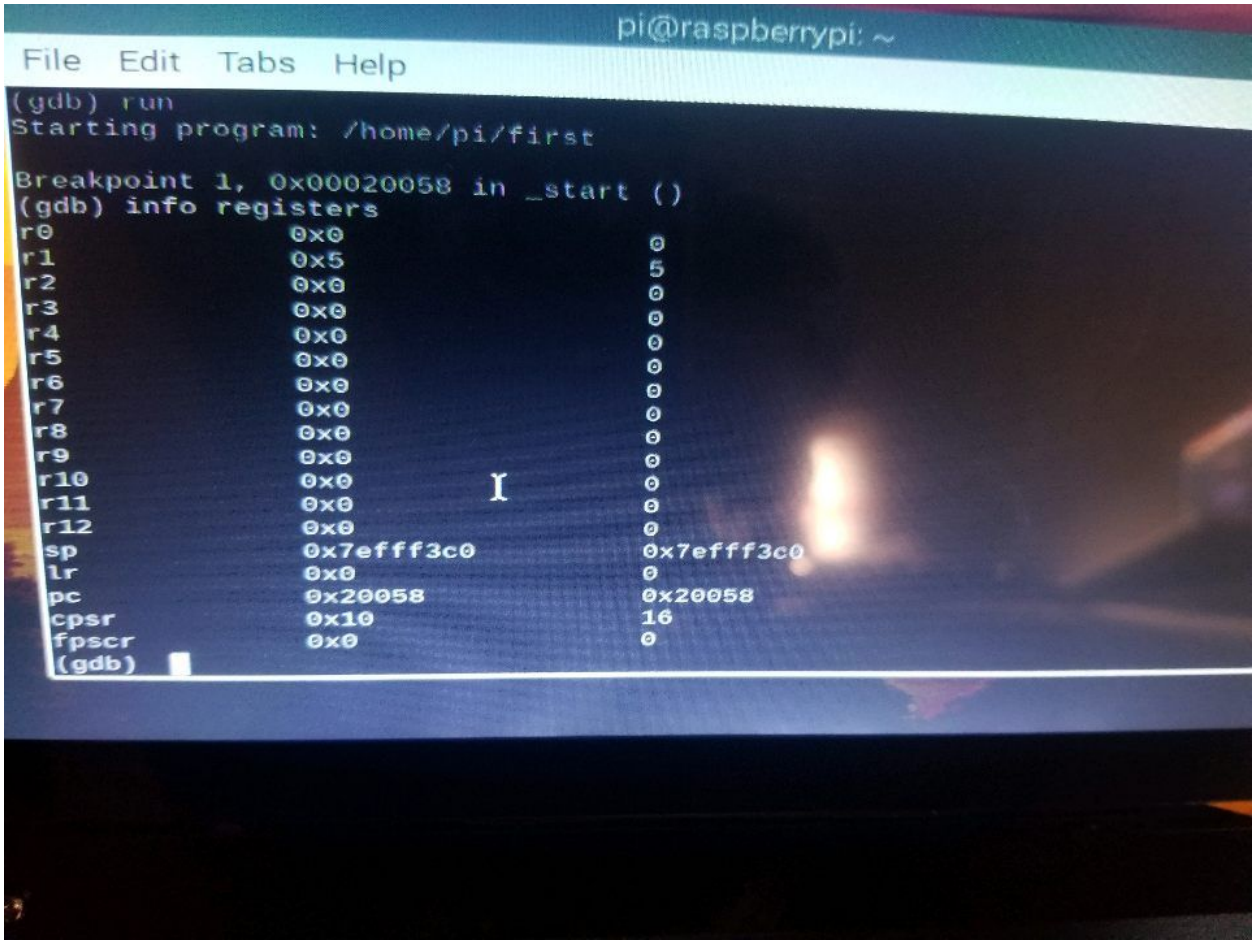
Soojie Chin 12:20 AM
Name: Soojie Chin
Task: Create and upload YouTube video and channel.
Interest: Obtain a baseline understanding of all aspects of computer science in order to understand and learn how to create a video game.
Expectations: To apply material learned in class to the projects, get to know the group members, and learn how to effectively work as a team despite any conflicts we may come across.

Nish 3:18 PM
Name: Nish Patel

Nish 3:36 PM
Task: answer the Teamwork basics Questions.
Interest: my goal is to get more knowledge and learn the basics of computer architecture
Expectations: to learn from each other and solve problems together

Task 4:





Task 6: https://youtu.be/Mi5FhTwwTps