Absolute time totals are at the complete bottom!

Date	Duration	Туре	Description of completed work	Challenges and/or Next Steps
1/27/2025	2 hours	Other	Attended Orientation Zoom meeting	Find supervisor, Lock-in project, talk to fellow classmate about possibly doing
5:00PM to 7:00PM				project together
1/28/2025 11:00AM to 1:30PM	2 hours & 30 min	Research	Updated this timelog's formtting, Looked into third project idea; Wrote up provisional draft detailing vague plan, and reasons why	THINK OF NEW PROJECT IDEA
	(2.5 hours)		*this* project; then realized NAMUS already did/does everything I wanted to do, meaning this entire project idea is useless and going	Attempt to contact friend again,
			out the window. Yay.	Shoot possible supervisors emails, go to their office hours,
				Setup a Github now, ahead of time?
1/30/2025	3 hours total	Other	• • • • • • • • • • • • • • • • • • • •	Go to Allan James's office, perhaps they can give some adive on choosing a
10:30AM to 12:15PM 12:45PM to 2:00PM			with friend about ideas inbetween now and last entry	project; and verify/unverify the ones we came up with?
				Shoot Prof Mcneill an email
2/1/2025	1 hour	Other	After a day rest, realized I was being dumb; doing the Cryptography	EMAIL EMAIL
10:00AM to 11:00AM			project; making it a Windows Exe now though, instead of a website;	
			I don't know how to make exes, so, it'll be a learning experience,	
			which is the point, no?	
			Also, wrote up a (very) rough draft explaining my thought-process, what the project entails, etc	
2/1/2025	0.5 hours	Supervisor	Sent that email to Mcneill, finally!	Rewrite rough draft into something more presentable by itself; this is a project
11:00AM to 11:30AM		Email		plan! I want to be able to send-in the document flat, if/when someone asks what my project's about!
				Apply to the internship oppertuinities; while completing my personal project
				would be something I would love, regardless, a job would just be smarter
				Get a head-start on programming for my project!
2/1/2025	7.75 hours	Other	Job & Internship Applications	continue this later.
11:30AM to 2:15PM 2:45PM to 7:45PM				

leek reflection:

"oh god submit time is this morning I'm an idiot I don't have time to reflect I hope the info presented so far is enough; I will do my best to achieve more professional results next submission; Again, my apologies!"

The above was from when I thought I had to submit 9PM, instead of AM, the first week.

In general, the week was both axiety inducing, and productive. I spent a majority of my time creating, and personally shooting down, project ideas, but not only did I eventually manage find a *decent* one, I snagged a great supervisor, in the form of Prof Mcneill.

On the challenges I specifically faced during this period; I realized that while I was up, down, and ready to do, pretty much anything, I didn't have a clear vision as to *what, exactly*, or, *how, exactly* to start. The Blackboard resources here were a great help; as well as were the 'previous project examples' page provided for/to us. While my own project is dissimiliar to any I saw there, the *finished project example* acknowledgement on 'what can constitute as a healthy project' made me realize I was both aiming too high, AND too low. My current project, while slated to be hard personaly, is a great chance to learn a *bunch* of things I've been meaning to get into!

Overall, I faced axiety during the first steps, but now, I feel like I'm on a roll!

Er, barring that first timelog submission mistake. That was, and still is completely on me.

Regardless, the first week was in retrospect, fun! Cheers!

THIS WEEK AND IN TOTAL;	
Types of hours;	SPENT;
supervisor discussions, emails:	0.5
Team discussions, emails:	0
Design:	0
Coding:	0
Testing & Debugging:	0
Research, training, learning:	2.5
Other:	13.75
TOTAL:	16.75

Date	Duration	Type	Description of completed work	

2/3/2025	0.25 hours	Supervisor	Confirmed Matthew McNeill as my supervisor!	Get in writing; I trust his word, but documentation is key!
10:50AM to 11:05AM				Survey + timelog + resume is due tonight! Do survey! Pretty up previous form!
				Rewrite Project description draft into a cleaner, more professional explaination
				Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!)
				Visit AJ's office; try to learn his office hours; and, get advise on current project idea; is it stable enough as is? If not, any reccomendations on how to expand and/or solidify it into a more presentable form? Etc?
				Get to coding!
2/3/2025 12:20PM to 12:50PM	0.5 hours	Other	Met AJ! Turned out, this morning, he placed an announcement this morning on blackboard; his office hours are there!	Get Professor McNeill's supervisor position in writing; I trust his word, but documentation is key!
			Also; we talked on the project; and while I'm going to convert/rewrite the notes I got onto my computer via a .txt, it was	Survey + timelog + resume is due tonight! Do survey! Pretty up previous form!
			overall very, very helpful! Project has more form to it, and it's also a go! Wohoo!	Rewrite Project description draft into a cleaner, more professional explaination
				Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!)
				Copy AJ-Meeting notes into a shortform .txt on this computer
				Get to coding!

2/3/2025 1:20PM to 1:50PM	0.5 hours total	Other	I thought the survey was due 9:00PM, not AM!	Get Professor McNeill's supervisor position in writing; I trust his word, but documentation is key!
			While my friend was able to remind me, it was a big blunder! Plus, my internet kept reverting the survey. Ugghhh. Add in the fact I didn't get time to convert my previous timelog into a pdf-friendly format??	Rewrite Project description draft into a cleaner, more professional explaination
				Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!)
				Copy AJ-Meeting notes into a shortform .txt on this computer
				Looked at supervisor form; let's make it easier on Prof; consolidate and categorize the hour amounts from last week, and formulate totals for this week into this excel too, yeah?
				Get to coding!
2/4/2025 10:30AM to 10:45AM	0.25 hours	Other	Copied yesterday's notes into a .txt, while expanding a bit on them, for future reference	Get Professor McNeill's supervisor position in writing; I trust his word, but documentation is key!
				Rewrite Project description draft into a cleaner, more professional explaination
				Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!)
				Looked at supervisor form; let's make it easier on Prof; consolidate and categorize the hour amounts from last week, and formulate totals for this week into this excel too, yeah?
				Get to coding!

2/4/2025 10:45AM to 12:45AM	2 hours	Design	Rewrote my project description graph to be a BIT more concise; no at a profssional level, but for our/my own, personal reference leve Adequte.	ot Get Professor McNeill's supervisor position in writing; I trust his word, but documentation is key!
				Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!)
				Looked at supervisor form; let's make it easier on Prof; consolidate and categorize the hour amounts from last week, and formulate totals for this week into this excel too, yeah?
				Get to coding!
2/5/2025 12:15PM to 2:00PM	1.75 hours	Coding	Started creating the setup-wizard using C# & visual studio 2022; mostly dealt with library dependacies, updating software issues,	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this
12.137 W to 2.007 W			and downloading the proper tools.	well/better than not!)
			Felt like a wash.	Looked at supervisor form; let's make it easier on Prof; consolidate and categorize the hour amounts from last week, and formulate totals for this week into this excel too, yeah?
				Get to coding!

2/8/2025 9:00AM to 12:00PM	3 hours	Coding	Used VS-2022 template to attach a windows setup-project to a windows-dekstop app, checked to see if it built, modified it a bit, it does now, Uploaded barebones version to github	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!) Looked at supervisor form; let's make it easier on Prof; consolidate and
			Continued to modify application, to 'make it sufficiently my own'	categorize the hour amounts from last week, and formulate totals for this week into this excel too, yeah?
				Add "Create Desktop Shortcut?" option to install wizard; Hookup to default "Windows uninstall option"; or, at least, double-check to see if that's just not working on our machine (would NOT be suprised, at this point)
				Create base planned classes inside the application (sidebar with algorithim list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)
2/8/2025	0.5 hours	Other	Reformatted this entire excelsheet; should be easier to read, both	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a
12:15PM to 12:45PM			regular and on pdf, + has accumlated hours ready to read at a glace	
				Meet & update prof monday? Or, at least email!!! While more chances for more hands on talk can/will happen later on in the semester, I want to start strong, too!
				Add "Create Desktop Shortcut?" option to install wizard; Hookup to default "Windows uninstall option"; or, at least, double-check to see if that's just not working on our machine (would NOT be suprised, at this point)
				Create base planned classes inside the application (sidebar with algorithim list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)

2/8/2025 1:00PM to 3:00PM	2 hours	Research	Looking into further resources & guides on both encryption software, & crypography in general	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this
1.00FW 10 3.00FW			software, & crypography in general	well/better than not!)
				Meet & update prof monday? Or, at least email!!! While more chances for more hands on talk can/will happen later on in the semester, I want to start strong, too!
				Add "Create Desktop Shortcut?" option to install wizard; Hookup to default "Windows uninstall option"; or, at least, double-check to see if that's just not working on our machine (would NOT be suprised, at this point)
				Create base planned classes inside the application (sidebar with algorithim list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

This week was...

Well, it was well, overall.

I started doing actual work on the coding side of my project, I met up with one of my friends and dedicated even some of my non-set-aside time to thinking and developing the project, and in general, I have a more concrete, formalized plan on *what* I'm gonna do, and how.

But, well, it feels lackluster; personal issues came up family-wise, and other duties, the works; despite arguably thinking about the project even more on average this week, my hours were less, and it shows. I *know* I'm gonna bounce back; there's no real obstcles in my path; I have a plan, it *is* feasible, and the hardest part (knowing *how* to start, and starting inofitself) is done. I guess overall, my takeaway for this week is that, even if I plan, schedules will fall through, and I need to be better at *adapting*, not *accepting*.

Cheers for nezt week, though! Hopefully, I'll talk to McNeill more!

SPENT;
0.25
0
2
4.75
0
2
1.75
10.75
SPENT;
0.75
0
2
4.75
0
4.5
15.5
27.5

Туре

2/10/2025 12:15PM to 12:30PM	0.25 hours	Testing	Went to campus library to download my github version to test base functionality; Downloaded fine & fast, but the setup.exe was auto-blocked; will attach picture to/as proof; (EDIT; no, I'm NOT gonna put it in this spreadsheet, looks clunky. Gonna put it in my 'proofs of work' folder, so when I upload the thing later to my github, It'll be there, alongside everything else. Sorry!)	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!) Meet & update prof monday? Or, at least email!!! While more chances for more hands on talk can/will happen later on in the semester, I want to start strong, too! Add "Create Desktop Shortcut?" option to install wizard; Hookup to default "Windows uninstall option"; or, at least, double-check to see if that's just not working on our machine (would NOT be suprised, at this point) Create base planned classes inside the application (sidebar with algorithim list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)
2/10/2025 1:00PM to 2:00PM	2 hours	Coding	While waiting for a miscommunicationed meeting(EDIT FROM THE DAY AFTER; *not* miscomm, but errors from beyond both our control), fixed the optionality of the Desktop-Creation box; Now, when using the install wizard, Users can choose to NOT have the desktop-shorcut appear. In other words; I long ago specififcally tested the uninstall function (a necessary requirement of testing my code, Imao), but I haven't yet tested on ANOTHER comp, as noted last entry.	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!) Update Github with the better version of the project! Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)

2/11/2025 10:30AM to 10:45AM	0.25 hours	Supervisor (emails)	Wrote and responded to an email to Mcneill; should/will be setting up a ZOOM meeting to make-up for the unfortunate miss from yesterday!	Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!) Update Github with the better version of the project! Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)
2/11/2025 11:45PM to 1:15PM	1.5 hours	Bugfixing	ORIGINALLY, I was just trying to revamp my github; but then I realized the desktop-optionality WASN'T working completely, so I looked into that; From then which, I realized the building of my local installer wasn't working, which led me to understanding that my base project-setup had some conflicts from seemingly nowhere. TLDR; had to completely redo project so far, then bug-test the hell out of the result. Current plan; Recomplete the little personalizations I did previously; Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Ironically, I think I'm still ahead of my projected schedule. Hurray?	

2/13/2025 10:45PM to 12:30PM	1.75 hours	Research	Instead of leaving it *technically* up in the air, I did more research into *what specific* encryption algorithims I'm going to use. After looking through my conditions(one standard, one Post-Quantum, one obscure, Windows-Microsoft favorable if possible, etc.), & my options; I concluded Standard AES, esp. since mircosoft has a walkthrough; it'll serve as an introduction to creating a proper encryption application for the first time Lattice-encryption; either via a custom algol-code, based off my own understanding, or the KEM (Key encap Mech) would be done via KYBER; a trusted example that's been around for a few years; while less fun overall; serves the educational aspect via it's prior existant presence. And finally I'll leave the third one for next week!	Current plan; Recomplete the little personalizations I did previously; Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Formalize Project-Map/Path (check blackboard; pretty sure doing this is a requirement anyway; they're more likely to have resources to help us do this well/better than not!) Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)
2/13/2025 1:30PM to 1:45PM	0.25 hours	Supervisor?	I had to take an emergency family call (sibling is living by themselves for the first time, politics aren't looking too hot, had to take it), and thusly, didn't make it for the supervisor zoom meeting I SCHEDULED AHHHHHHHHH So, thinking fast, (but in a very, very drained fashion), I opted to immediately start recording what I had for the project so far, so AT LEAST it could be said an update was made/attempted. I'm mostly apologetic towards Professor Mcneill; it's not intentional, but still, his time was wasted, and I didn't want to ever do that! Ugh. Link here; https://www.youtube.com/watch?v=JGtxCgxSISM	

2/15/2025 10:30AM to 3:45PM	5.25 hours	Other	I don't, and still don't know, that if/since I'm doing a project by myself, if I *also* have to prepare a project diagram & such, or, if that's *only* for projects with groups of people within them. Regardless, did it, and got it out of the way; will submit monday night, in case something happens inbetween now & then Between this, & my many, many notes; I'm okay with saying I have a solid Project-Map/Path.	Current plan; Recomplete the little personalizations I did previously; Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)
2/16/2025 12:15PM to 1:30PM	1.25 hours	Research	Legitamately a bit spontaneous; Just went on to double-triple-recheck-quadruple check again that,	Current plan; Recomplete the little personalizations I did previously; Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the
			if what I'm doing/planning is viable (conclusion: yes); then, went on to try to find a white-page or something for a thrid, obscure algorithm.	application itself! Test install & uninstall & such on another COMP!!!
			No luck.	Create base planned classes inside the application (sidebar with algorithim list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia)

2/17/2025	3 hours	Other	Had no internet for a solid portion of time; decided to start fixing	Current plan; Recomplete the little personalizations I did previously; Rename
5:00PM to 7:00PM			old PC that I planned on factory-resetting for testing-purposes a bit	
			now, rather than later, just to save time/be efficient/do	4900installer" which is just straight up *dumb*, and FINALLY continue to the
			SOMETHING productive today.	application itself!
			Spent two and a half hours looking for old power cables, cleaning	Test install & uninstall & such on another COMP!!!
			the PC's tower, and watching it slowly, slowly try to update and turn	1
			on.	Create base planned classes inside the application (sidebar with algorithim
				list, specific algol, rich-or-simple text call, etc. Basically; start shaping the
			Then, spent another half an hour watching it continuously quit and	minutia).
			kill itself just to spite me.	
				Fix old PC. Don't be an idiot about it
			I'm sure this is my fault, somehow; but I did put in the work; so I'm	
			logging it. Hopefully, either next time, I can finangle something, or,	And update the github again.
			worst case, I have to take it to a shop for repair.	
			joy.	
			1-1.	

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

Overall; the project's as clear-cut as it's gonna get. I'm just gonna have to start to apply to the grind of it all;.

Throughout the week, there have been several complications keeping me from doing anything I feel like was true, productive work. Needing to completely revamp my current project due to some latent file-conflict I *still* don't fully understand what was, days later, my Asthma acting up (now using Fluticasone-Propionate & Salmeterol. Hurray.), having that supervisor meeting be missed due to an emotional family call, the internet cutting out for a bit today, presumably because of the wind, and my goddamn old-tower PC *refusing* to work.

It's been a week.

But then again, I guess it's always been, no?
I just hope things get better. Overall, project wise, still ahead of shcedule, so, that's fine, at least.

Here's to another week, yeah?

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0.5
Team discussions, emails:	0
Design:	0
Coding:	2
Testing & Debugging:	1.75
Research, training, learning:	3
Other:	8.25
TOTAL:	15.5
<u>IN ABSOLUTE TOTAL:</u>	
Types of hours;	SPENT;
supervisor discussions, emails:	1.25
Team discussions, emails:	0
Design:	2
Coding:	6.75
Coding: Testing & Debugging:	6.75 1.75
Testing & Debugging:	1.75
Testing & Debugging: Research, training, learning:	1.75 7.5

2/18/2025 10:15PM to 11:0AM	0.75 hours	Coding	Attempting to finish up the Application work by adding the base button to panel to change functionality; want to start on AES implementation now, sooner, rather than later.	Current plan; Recomplete the little personalizations I did previously; Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia). Fix old PC. Don't be an idiot about it And update the github again.
2/18/2025 12:30PM to 2:00PM	1.5 hours	Coding	Second verse, same as the first!	Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Test install & uninstall & such on another COMP!!! Create base planned classes inside the application (sidebar with algorithm list, specific algol, rich-or-simple text call, etc. Basically; start shaping the minutia). Fix old PC. Don't be an idiot about it. And update the github again.
2/18/2025 5:30PM to 6:15PM	0.75 hours	Coding	Siderbar & reading from .txts are a go! After I got the basic framework down, completing the actual functionalities was easy! Application looks ugly, and doesn't scale/feel as well as much as I'd like, but also; this is a learning/programming/application/encryption/cryptography project. Not a Multimedia Applications project (lol); ugly is fine, as long as it works!	Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself! Test install & uninstall & such on another COMP!!! Fix old PC. Don't be an idiot about it. And update the github again.

2/19/2025 12:15PM to 12:30PM	0.25 hours	Supervisor	GOT TO HAVE AN INPERSON MEETING WITH MCNEILL! YEEEAAAHHHHH!!!!	Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY continue to the application itself!
			We talked shop, and I reiterated & reshowcasted my project's	
			stated ideas & goal, explained my step-plans for completion, and showcased the little I made so far!	Test install & uninstall & such on another COMP!!!
			Since I get anxious easy, it obviously was so, but it was fun! He pointed out how itd probably be fine if I switched the project a bit-	Fix old PC. Don't be an idiot about it.
			used already made cryptography libraries for the encryption process (quoted the common error of companies attempting to	And update the github again.
			build in-house, & the errors created from minor mathematical errors & such; "Don't build your own crypt"; or something similar to that' sorry forgot the specific phrase)	Add a standard cryptography library to the project; incorporate their function!
			And while I agreed, we both noted how if I did that, I would need to	
			go even harder on the educational aspect, and that I'd lose the	
			personal-learning experience of attempting to build my own	
			encryptors myself. So, considering all that; a mix was decided; I	
			would yes, implement a standard libraries; but after I do such, I'd	
			attempt to build my own; and use the standard-versions as benchmarks (if my custom can correctly be decrypted by standard;	
			that's the benchmark met!)	
			Other than that, he pointed out it's perfectly fine to backlog with	
			incredibly basic cyphers, which was a good point!	
			Overall, great meeting!	

2/19/2025 1:00M to 2:00PM	1 hour	coding	Started Implementing the standard Windows AES library!	Rename installer/roject, because currently, when running, I made it say "Installing 4900installer" which is just straight up *dumb*, and FINALLY
2100111 (0 21001 111			Not much progess yet though, but hey! Only the first hour of this segment; tons more to go!	continue to the application itself!
				Test install & uninstall & such on another COMP!!!
				Fix old PC. Don't be an idiot about it.
				And update the github again.
				Add a standard cryptography library to the project; incorporate their function!
2/23/2025 6:40PM to 6:55PM	0.25 hours	Other	Just filling out the survey; realized I didn't do it yet! Almost a major Whoops!.	Goals remain the same!
			On Why there was a large gap inbetween this entry, and the last;.	
			I'm going to be honest; I got sick, then, my *mother* got sick- and	
			now we're still kind of half-are. I'm not even sure I'm gonna make it	
			to campus tomorrow, it's a bit of stupid gamble;	
			Like, while I *did* technically do *some* research work throughout	
			these days, when I could use my phone & such- they were so	
			scattered time-wise & unsubstantial in results, that, well, I just can't reasonably count them.	
			It's my bad, but considering the circustances, I can't even make	
			myself feel guilty- when it comes to health, it just feels like luck, at	
			this point. At least, I *was* *ahead* of schedule- now I'm just ON schedule (lol).	

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Well, this entire week felt like a minor wash. Started *out* incredibly well; started getting into a groove of work that I liked, finally managed to snag that meeting with Mcneill, my supervisor, that we've been meaning to get to, and everything.

Then, I used thursday to do my other-course asaignments, then, I fell sick on friday.

And *then*, whatever *I* had, my mother recieved, plus a migraine, so, I was just. Dealing with that, plus hovering over her, wondering if I had to get us both to the ER, or something..

You'know, I wrote something along the lines of not even being mad, just annoyed, or something, but no, I'm actually, kinda getting pissed thinking about it.

It's getting annoying. I was happy with my pacing- I was ahead of schedule. And while now, I'm not like, *behind*; far from it... I'm still not *ahead* anymore, and it feels like I was cheaped-out of my advancement..

Gah, I dunno.

I know the mature thing is to acknowledge that tomorrow is a new day, with more oppertuinities to catch up...

I just- hope I actually get to get there, next time. Considering my luck, so far- I'm going to wake up tomorrow, and we're being like, invaded by aliens or something. Ugh..

Till next time

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0.25
Team discussions, emails:	0
Design:	0
Coding:	4
Testing & Debugging:	0
Research, training, learning:	0
Other:	0.25
TOTAL:	4.5 (UGH)
<u>IN ABSOLUTE TOTAL:</u>	
Types of hours;	SPENT;
supervisor discussions, emails:	1.5
Team discussions, emails:	0
Design:	2
Coding:	10.75
Testing & Debugging:	1.75
Research, training, learning:	7.5
Other:	24
TOTAL:	47.5

Date	Duration	Туре	Description of completed work	Challenges and/or Next Steps
2/24/2025 7:00PM to 7:30PM	0.5 hours	Bugfixing	Updated the Github; but then, recognized a load-error in the basecase; this took half? An hour.	Make installer be able to update older-versions found on COMP? uninstalling the old version, then re-installing the new one, while great for testing that, is dumb
			Also finally renamed installer-project; but, then, wrote the wrong version-number. Reads 1.002, instead of 0.002; not something someone who isn't in th files will see, but still.	Test install & uninstall & such on another COMP!!!
				Fix old PC. Don't be an idiot about it.
				Finish AES implmentation
2/26/2025 10:00AM to 11:00AM	1 hours	Coding	Further coding on implementing AES to winforms	Make installer be able to update older-versions found on COMP? uninstalling the old version, then re-installing the new one, while great for testing that, is dumb
				Test install & uninstall & such on another COMP!!!
				Fix old PC. Don't be an idiot about it.
				Finish AES implmentation
2/26/2025 12:30PM to 2:00PM	1.5 hours	Coding	Further coding on implementing AES to winforms; Specifically; successully completed the AES encryption! Wohoo! Need to hook up to winforms in a more reasonable manner, though	Make installer be able to update older-versions found on COMP? uninstalling the old version, then re-installing the new one, while great for testing that, is dumb
			Need to hook up to willioning in a more reasonable mainler, though	Test install & uninstall & such on another COMP!!!
				Fix old PC. Don't be an idiot about it.
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

2/27/2025 10:00AM to 1:30PM	3.5 hours	Coding	Reformatted Encryption windows again; they look slightly different,	Make installer be able to update older-versions found on COMP? uninstalling the old version, then re-installing the new one, while great for testing that, is
10.00AW 10 1.50 W			added radio-buttons to ask if the user wants their results pasted *within the application*, OR, according to a PATH-URL	dumb
			Created char-limit to input&output textboxes (100)	Test install & uninstall & such on another COMP!!!
				Fix old PC. Don't be an idiot about it.
			Decryption's key-reading is acting odd, will fix next time!	Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/1/2025 2:00PM to 3:30PM	1.5 hours	coding	Fixed the Decryption key-reading issue, and added a few error try-catches!	Make installer be able to update older-versions found on COMP? uninstalling the old version, then re-installing the new one, while great for testing that, is dumb
			Going to add the 'create new file' and 'add to desktop functionality', then, I'll be done with AES!	Test install & uninstall & such on another COMP!!!
				Incorporate Github Projects!!!
				Incorporate Github Projects!!!
				Fix old PC. Don't be an idiot about it.
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/1/2025 4:30PM to 5:30PM	1 hour	coding	Still working on the issue. Going to reset my COMP, and return to this afterwards	Same as before; Not going to Copy-paste the above until next day-session(s)

3/1/2025	1.75 hours	coding	OKAY, SO;	Test install & uninstall & such on another COMP!!!
5:45PM to 7:30PM				
			While I made writing to Desktop work, writing to files *isn't* for some ungodly reason. I'm going to take the rest of the day off, and	Incorporate Github Projects!!!
			return tomorrow; fresher eyes'll help, maybe	Fix old PC. Don't be an idiot about it.
			Also I made it so the installer will replace older versions; need to test that further, though;	THE DEMO VIDEO! AHHHH!
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/2/2025 2:00PM to 3:45PM	1.75 hours	bugfixing	The break was a good idea; within ten minutes, I fixed the writing to Desktop problem.	o Test install & uninstall & such on another COMP!!!
				Incorporate Github Projects!!!
			But then I spent the next longest time just watching my desktop crash.	Fix old PC. Don't be an idiot about it.
			I don't even know, anymore. God hates me and I hate the world back. I'm logging it, however; need to come back later, and do the	THE DEMO VIDEO! AHHHH!
			video.	Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

3/2/2025	0.5 hours	Other	Just. Almost forgot to do the Demo Recording! I was planning on	Test install & uninstall & such on another COMP!!!
8:45PM to 9:00PM			doing it the last day, so that wasn't an issue, but man!	
&				Incorporate Github Projects!!!
9:15PM to 9:30PM			EDIT; Weekly reflection & hour totals- prooobably should *also* be	
			recording these touch-ups as I do them, if they're, yes, taking upwards of 15 minutes, huh?	Fix old PC. Don't be an idiot about it.
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

It's been a fun week, actually!

There isn't much to say, however; I *basically* finished AES-Standard implementation, and mostly finalized the formatting of everything else. Now, I just gotta call libraries, and create my own bootleg-versions, and some more smaller, simpler algorithms (Like shifts, & such).

Yeah! It's not much, to talk about, but it was a lot of work, and I'm proud of it!

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0
Team discussions, emails:	0
Design:	0
Coding:	10.25
Testing & Debugging:	2.25
Research, training, learning:	0
Other:	0.5
TOTAL:	13
IN ABSOLUTE TOTAL:	
Types of hours;	SPENT;
supervisor discussions, emails:	1.5
Team discussions, emails:	0
Design:	2
Coding:	21
Testing & Debugging:	4
Research, training, learning:	7.5
Other:	24.5
TOTAL:	60.5

Wish I wasn't sick last week, UGH



Date	Duration	Туре	Description of completed work	Challenges and/or Next Steps
3/3/2025 10:00AM to 11:00AM	1 hour	Coding	Started uniforming error-messages with an Error-file, making the file-checks just a function-call, instead of a whole, thing, each	Test install & uninstall & such on another COMP!!!
			encryption-button-call-function, and, I got rid of the 'create file' button, & it's funcitonality. It's, a bit dumb; I'll just make it always	Incorporate Github Projects!!!
			• • • • • • • • • • • • • • • • • • • •	Fix old PC. Don't be an idiot about it.
			NOT finished with everything yet, but still, like always (it feels like),	Implement Kyber, or Kyber-like library
			close!	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc.); I've done it!
				Keep coding!
3/3/2025 12:15PM to 2:00PM	1.75 hours	Coding	Same as the last; finishing up those segments, plus revamping functions in general, for less space & more reusability!	Test install & uninstall & such on another COMP!!!
				Incorporate Github Projects!!!
				Fix old PC. Don't be an idiot about it.
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

3/3/2025 7:00PM to 7:30PM	0.5 hours	Coding	AES STANDARD IS DONE! 256 IS CONSIDERED POST-QUANTUM TO BOOT!	Test install & uninstall & such on another COMP!!!
				Incorporate Github Projects!!!
			Everything else now would just be tweaks; Noting those in the	
			TODO of the file, and NOW JUST GONNA MOVE ON TO KYBER LET'S-A-GOOOOOOO!	Fix old PC. Don't be an idiot about it.
				Implement Kyber, or Kyber-like library
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/4/2025	2.25 hours	Research	Attempting to see if I should focus on pure KYBER implementation,	Test install & uninstall & such on another COMP!!!
10:45AM to 1:00PM			or switch to another library, such as LMS, SABER, or Picnic.	
			I've been researching the NIST(the National Institute of Stanard Tech)'s Post-Quantum Standardization rounds/Competition, and	Incorporate Github Projects!!!
			while KYBER *seemed* to mostly come out on top, there've been allegations of lampshading and 'horse-rigging' in certain industry-	Fix old PC. Don't be an idiot about it.
				t Create custom-versions of AES & Kyber/Kyber-like-library, and test
			going to touch that *exact* subject with a decent pole. On the flip	encrypt/decryptability against them; if I can decrypt using standard, a thing
			side, however; these libraries are all public, with no-restiction	encrypted from my custom- and vise-verse (decrypt a standard encryption,
			unlicense copyrights; meaning I can learn the implementation of	etc); I've done it!
			several as I go; Which will be good for the sucational segment, if not	••
			if/when/hopefully(?) I build my own, tiny, and worse, version(s)???	Keep coding!
			Conclusion; going to use the BouncyCastle library-set!	

3/5/2025 12:30PM to 12:45PM	0.25 hours	Supervisor	Met up with McNeill again! Showcased my program so far, talked my current plan- Kyber & such via the BouncyCastle library, and he	Test install & uninstall & such on another COMP!!!
			mentioned two really great points;	Incorporate Github Projects!!!
			While my program is *understanable*, having a textbox or two next to, or above, the textboxes themselves to explain would be for the	Fix old PC. Don't be an idiot about it.
			best; I'm thinking the space that currently has the Garfield picture?	Research things like the history of PGP (Pretty Good Privacy)
			And secondly; there are LOADS of programs that delt with en, & decryption, but due to being obtuse/hard to parse, they failed-despite their technical/programmical success. The example given	Get ready for live presentation!!! IT'S ON MARCH 11TH! AT 10:20AM!! We're gonna be doing this at home, so, be careful!!
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc.); I've done it!
			applications/programs like it, would be worth it!	Keep coding!
3/7/2025 2:30PM to 5:30PM	3 hours	Research	I've learned so much	Test install & uninstall & such on another COMP!!!
			And yet nothing	Incorporate Github Projects!!!
			About PGP. I feel like I've wasted three hours of my life I'll never get back.	Fix old PC. Don't be an idiot about it.
			I'm done for the day, GOD.	Get ready for live presentation!!! IT'S ON MARCH 11TH! AT 10:20AM!! We're gonna be doing this at home, so, be careful!!
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

3/8/2025 5:15PM to 9:45PM	4.75 hours	Other	Good news! I ffixed my damn PC! Technically. It absolutely resfuses to connect to the internet. I. I don't even know, anymore. A few neighbors expressed support about/with my project, but they also talked me out of doing the whole, survey & experience thing. Guess I was too overeager? REGARDLESS, I've, again, spent too much time on a thing that now probably won't ever come up again, and I regret even attemping. At best, I did a thing I should've a long time ago (fixed PC)- at worst, I wasted time attempting to prepare a way to 'test' the educational bit of the project, which, I guess, doesn't *need* to be tested, anyhow, I guess. GAH. Should I just have it be an encryptor application, flat??? Talk/prep with Matthew, GOD, AHHHHHH WHY IS EVERYTHING	Incorporate Github Projects!!!
2/0/2025	0.251	 /	*LIKE* THIS??	
3/9/2025 10:15AM to 10:30AM	0.25 hours	Testing/ bugfixing	Finally tested install-uninstall & such on another windows COMP (the PC I just fixed, yesterday; yes, I got the internet to work, took a few overnight updates & such, but I'm not counting that time for project-progress for obvious reasons)	Incorporate Github Projects!!! Get ready for live presentation!!! IT'S ON MARCH 11TH! AT 10:20AM!! We're gonna be doing this at home, so, be careful!!
			REGARDLESS; works. Woo. Hoo. I swear that machine is going to sprout legs one day, and drive me to drink.	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/9/2025 10:30AM to 12:30PM	2 hours	Other	Just, prepping for the 10-minute interview I have on Tuesday; the live presentation?	Incorporate Github Projects!!!
			GOD, I *know* I incorporated enough wiggle-room in the flow of the project beforehand just in case, so I'm fine, but I haven't even	Get ready for live presentation!!! IT'S ON MARCH 11TH! AT 10:20AM!! We're gonna be doing this at home, so, be careful!!
			finished incorporating KYBER, SABER, or any of those things yet! AHHHHHHHH I'm worried I'm gonna mess this up!	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!

Week reflection:

I feel like I barely got any time to do anything; It's all been writing this, reading that, etc!

While I'm still optimistic about/for the project, the drain is ABSOLUTELY getting to me. I've been worrying about the my presentation, I've spent what feels like a majority by far of my entire week just, researching nonsense, and my PC's functionality, while neat in the home-life sense, basically showed itself to be agiant waste of time.

And did I mention I'm sick? I'm sick as the goddamn leeches in france. And I still did stuff! It's majorly why a large part of my week has been just, reading! I'm not even sure I'll be able to come *in*, tomorrow!

GOD, it feels like the universe is conspriring against me, and while I *GET* that's just like. A part of being on/doing a project, ha-ha, *it's aggravating*! I just want to make my hours, and *actually do my project*! I *like* my project! I *want* to somplete it!

So why does it feel like I'm not being allowed to?

I guess this became more of a vent, then a reflection- NOTE; edit this all out, later

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0.25
Team discussions, emails:	0
Design:	0
Coding:	3.25
Testing & Debugging:	0.25
Research, training, learning:	5.25
Other:	6.75
TOTAL:	15.75
<u>IN ABSOLUTE TOTAL:</u>	
Types of hours;	SPENT;
supervisor discussions, emails:	1.75
Team discussions, emails:	0
Design:	2
Coding:	24.25
Testing & Debugging:	4.25
Research, training, learning:	12.75
Other:	31.25
<u>TOTAL:</u>	76.25

Date	Duration	Туре	Description of completed work	Challenges and/or Next Steps
3/11/2025 10:00AM to 10:30AM	0.5 hours	Other	Yup. Spent all day yesterday in bed. Ugggghhh.	Incorporate Github Projects!!!
			Prepped for 10:20 meeting, had 10:20 meeting, which ran a bit overtime, bt, uh, yeah!	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption,
			Guuuessss who overstressed about the presentation for literally nothing, like they do always, for everything, again?	etc); I've done it!
				Keep coding!
			This idiot! Not that that's *bad* news- far from it; being an anxious	
			mess in a more casual-meeting just showcasing work done so far is	
			WAY better than like. Being unprepared for a meeting, flat-	
			Professor Chuang mentioned how I should work on that, and I agree	
			presenting, showcasing, I get a sort of stage fright, and I know it's ar	1
			issue & skill I need to work on! So, the advice was welcomed, absolutelty!	
			In other news/bits; she talked her own experience making a proper	
			UI for users to navigate, and gave a nice suggestion about auto-	
			removing quotation marks. Thanks, Chuang!	
1				

3/14/2025	4.75 hours	Research	OKAY; SOO;;	Incorporate Github Projects!!!
12:45PM to 5:30PM			Between assignments and the live presentation, I haven't really done much, so, I thought, might as well research at least a *little*, right? Get my groove on, just before doing the majority of my	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing
			coding tonight, and tomorrow, and Sunday. But then I went down a goddamn rabbithole with RSA versus DSA; case and point, I'm going to have to reformat a decent chunk of my	encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
			application, and I hate myself. Uggghhhhhhh;; LOOK; I'll explain *next time*, OR, when I GET TO IT, right now, I'm	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
			just gonna go and start cooking.	LOOK MORE INTO THE ML-DSA (nationally standardized dilithium) ACTUAL FORMATTING AND TEXTS
				MAYBE ACTUALLY PREP FOR THAT MEETING ON WEDNESDAY WITH MCNEILL, LOSER!
				АААААААААННННННННННННННННН
				Keep coding!

3/15/2025	6.25 hours	Research	НННННННННННННННННННННННННННННННННН	Incorporate Github Projects!!!
11:45AM to 6:00PM			ннининининининининининининининининининин	
	АННННННН	(Read: Being	ннининининининининининининининининининин	Create custom-versions of AES & Kyber/Kyber-like-library, and test
	нннннннн	tortured by	ннининининининини	encrypt/decryptability against them; if I can decrypt using standard, a thing
	нннннннн	Helel's ransom	Okay that's enough angst	encrypted from my custom- and vise-verse (decrypt a standard encryption,
	нннннннн	melenchony	For now;	etc); I've done it!
	нннннннн	AHHH I CAN'T	TLDR; BouncyCastle isn't just a dual library API on both C# & Java	
	нннннннн	SPELL	It's basically 99% Java; I've been going through their API	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
	нннннннн	АНННН	documentation sets, and there are NO records, I can find, of the	AUTHENTICATION/VERIFICATION
	нннннннн		*names of the C# functions their library declares*; *NOR*	
	нннннннн		explainations- which is bad, since at this point, I might as well	MAYBE ACTUALLY PREP FOR THAT MEETING ON WEDNESDAY WITH MCNEILL,
	нннннннн		attempt to recreate the algorithims from *pure scratch*; the names $% \left(1\right) =\left(1\right) \left(1\right) $	LOSER!
	нннннннн		of the functions I *have* found are ALL deprecated SPELLING AH;	
	нннннннн		And work wonky with my code.	BOUNCYCASTLE HATES ME AHHHHHHHHHHHHHH
	нннннннн		Basically? Either I A; redo everything in Java, B; find a manner to link	
	нннннннн		Java to my broken-as-inferno local version of VS (which I'm scared	FIX THE LIBRARY ISSUE OR START DOING THINGS FROM SCRATCH,
	НННН		to do, despite it SUPPOSEDLY just being a- $^{\mbox{\scriptsize leffin}}$ file-create, because	LOOOOSERRRRR AHJSHQEFJEW
			sometimes my version crashes *when I type too fast $\ensuremath{AHHHHHHH}\xspace^*$)	
			Or C; switch libraries.	ААААААААНННННННННННННННННН
			OR D; DO EVERYTHING BY SCRATCH IN C# AHHHH	
			AAnd that wasn't even what I was FOCUSING ON yesterday! GOD, WHYYYYYYYY	Keep coding!
1				

3/16/2025	3.25 hours	Research	MUCH BETTER NEWS (Also I REALLY gotta go back and edit that	Incorporate Github Projects!!!
1:15PM to 4:30PM			above section to less miserable);;	
				Create custom-versions of AES & Kyber/Kyber-like-library, and test
			It was hidden within the internal mangum opus of Hermes's very	encrypt/decryptability against them; if I can decrypt using standard, a thing
			own bird- the flightless heathen beyond the pale garden-	encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
			But I found it! An actual *updated* version of the BouncyCastle API	
			that's NOT just Java, has NOT deprecated function data &	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
			descriptions & functions & returns & basically everything else, AND	AUTHENTICATION/VERIFICATION
			HAS POST-QUANTUM STUFFS (because the C# segment manuals I	
			found were GENERAL BouncyCastle, and often were dated	MAYBE ACTUALLY PREP FOR THAT MEETING ON WEDNESDAY WITH MCNEILL,
			anywhere from 2016 to 2020 to 2023; all with *nothing* post- quantum);	LOSER!
				Keep coding!
			Issue was; functions didn't work in my code- but I KNEW this would	
			happen, and forgot to mention earlier, so it was a quick fix; the GNU	
			version I downloaded was an *older* version, ontop of	
			EVERYTHING	
			GOD. UGH.	
			Anyway; It's ALL FIXED, and so I can ACTUALLY START DOING STUFF	
			NEXT WEEK LETS GOOOOOO	

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

This entire week was STRESSFUL;

The status of the bouncycastle castrope really put everything into a sudden stop-- I didn't want to go back to just messing about with *WinForms*, of all things, so, I put everything I had into trying to troubleshoot the problem before it caught-up to me and killed the project, so to speak;

And while required going through stuff like this (https://downloads.bouncycastle.org/csharp/);;; I EVENTUALLY found a PQC manual.

Though, wanna know WHY it was suddenly so fast?

As far as I'm aware?

They were just goddamn updating their website. NOT that the PQC manual I found was ON the main website (although the download link WAS still connected to their website's port;; I couldn't find it on their website itself- call me blind or goddamn dumb, but I'm tired, okay?);;;

And beyond that. BEYOND THAT;;

The manual I found WAS STILL FOR JAVA; So, it was within the OTHER API list--- It just works for me, since it gives examples at the bottom THAT USES C#; So, THUSLY, I can follow along, *now* knowing the appropriate naming conventions- if I wanna translate between Java & C#, at least.

Worst case, I double-dog-save my project with a few backups, and I hold a java file up to it like a scared cartoon scientist Hopefully, as always, next week'll be better?

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0
Team discussions, emails:	0
Design:	0
Coding:	0
Testing & Debugging:	0
Research, training, learning:	14.25 AHHH
Other:	0.5
TOTAL:	14.75
IN ABSOLUTE TOTAL:	
Types of hours;	SPENT;
supervisor discussions, emails:	1.75
Team discussions, emails:	0
Design:	2
Coding:	24.25
Testing & Debugging:	4.25
Research, training, learning:	27
Other:	31.75
TOTAL:	91

3/17/2025 5:30PM to 6:30PM	1 hour	Other	I've been prepping for that Mcneill meeting; I'm of two minds; On one hand- prepping actually hurt me, I think, during the live	Incorporate Github Projects!!!
			presentation- I'm not sure if it's just a zoom thing, a meeting thing, or an anxiety thing??	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption,
			Meh.	etc); I've done it!
			It's gonna be an in-person meeting, so, it *should* be okay??	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
			On the OTHER hand, if I just go in half-cocked, I'm probably going to	·
			just go on rambling about how messy last week was, which is, bad. NOT like I have actual other things to show-off- just a handful of	Keep coding!
			PDFs I saved out of near dozens, and like. Minor API-based fauxptsd.	
			I wrote up a thing of bulletpoints, but who knows if I'll even use it??	
			Whatever; it's a thing off the list!!	
3/18/2025	1.75 hours	Coding!	FINALLY got some coding on the project in! Feels like it's been	Incorporate Github Projects!!!
5:15PM to 7:00PM			forever!	
				Create custom-versions of AES & Kyber/Kyber-like-library, and test
			Now; a while back last week, I mentioned something about DSA & RSA screwing me up, and while I know *what* I was thinking of, I'm actually Not entirely sure why I phrased it that way? Then again-	encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
			exhuastion would be a pretty goood guess (lol);	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
			Anyway- it just means I'm gonna adjust the internal plans of the project a bit- nothing external;; For key-signatures, I'm just going to	AUTHENTICATION/VERIFICATION
			showcase, well, key verification not as snazzy as actionable file encryption, but bizazz isn't all there is to it, is there!	Keep coding!
			Other than that, I screwed around with winforms a bit to *actually* include a home page (I NEED to start typing things up), and did some minor fixes, improvements (such as kathrine's suggestion),	
			and changes!	

3/19/2025 12:15PM to 12:45PM	0.75 hours	Research	Was just double-checking that nothing like that BouncyCastle scare was going to pop-up; doubleOchecking my process, my	Incorporate Github Projects!!!
			dependacies, my plans, etc. Am half-considering re-labelling this 'other', but I spent enough time percent-wise looking things up that it's good Also; just had a midterm in the class I had with my supervisor;; sadly, had to call off staying over for office hours- despite thinking I did decent on the test, I legit have to focus on some other assignments right now! Graphics & Workstation Prog is killing my	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Keep coding!
3/19/2025 9:00PM to 9:15PM	0.25 hours	Supervisor	Since I didn't go to office hours, like I promised to, I sent an email to check out posible times we could arrange an online meeting!	Incorporate Github Projects!!!
5.65 65 5.15			Worst case, I can record and upload my second ever video to youtube (lol)	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				Watch out Outlook for email response from Mcneill also, the meeting itself!!!
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
				Keep coding!
3/20/2025 10:00AM to 12:30PM	2.5 hours	Other	Okay, so, just like two times ago, I REALLY want to just label this other, not research- but it's what I was doing? Looking stuff up &	Incorporate Github Projects!!!
10.00AW to 12.50 W			reading standardizations- difference is, I was majorly updating all the softwares I have- VS, double-checking my libraries, etc.	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption,
			Meh; I'll cut it later, I guess? For now, I'm gonna jump into coding!	etc); I've done it!
				Watch out Outlook for email response from Mcneill also, the meeting itself!!!
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
				Keep coding!

3/20/2025	2 hours	Coding!	ML_DSA IS A GOOOOO YEAAAHHHHHH!!!!!	Incorporate Github Projects!!!
12:30PM to 2:30PM				
			I can legit say now my program has government approved coding	Create custom-versions of AES & Kyber/Kyber-like-library, and test
			secuirty (lol)	encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption,
			ҮЕЕААНННН!!!	etc); I've done it!
			I also did some bumgling with SABER & old Dilithium, but that's	Watch out Outlook for email response from Mcneill also, the meeting
			besides the point; I just gotta hook this up to winforms, after i make the key-verification format for a tab, and I'm good to go!	e itself!!!
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
				AUTHENTICATION/VERIFICATION
				Keep coding!
3/21/2025 2:30PM to 2:45PM	0.25 hours	Supervisor!	Had that meeting with Mcneill! Yeah!!!	Incorporate Github Projects!!!
			Just like last time, I received, uh, pretty bad news directly before it,	Create custom-versions of AES & Kyber/Kyber-like-library, and test
			though. UNLIKE last time, I chose to abstain from interacting until	encrypt/decryptability against them; if I can decrypt using standard, a thing
			my meeting was over, AND it turned out to be a false-flag! Er; bad	encrypted from my custom- and vise-verse (decrypt a standard encryption,
			wording; it turned out all-right- not a *flase-flag*; it was a flag that was raised and seen and figured out to be, luckily, a mistake?	etc); I've done it!
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
			GAH, I CANNOT speak right not, whatever!	AUTHENTICATION/VERIFICATION
				Keep coding!

https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

A haiku, for ye, so looks upon me & my works (ye mighty), from a future shore, far, far;

I dreampt I could run.
I saught folly with the angels.
I worked no more.

AKA; midterms; I've been dealing with midterms for most of this week; But AGAIN, it seems, that this week was nearly CODELESS

AM I CURSED? AM I CURSED BY GOD? IS THERE A SACRIFICE I'M EXPECTED TO MAKE? I DON'T OWN A LAMB, MUCH LESS A FARM, KETHER!

But, yeah; jokes aside--

I'm just gonna set it aside now-- Besides the studying for that one last midterm of mine in two weeks;

I'm just gonna go ham on coding next weekend!

HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAI!

Apologies if this is an unprofessional update; I'm unironically runnning on two hours of sleep from throughout the last two days, and it's 3 o'clock right now.

I'm going to bed! HAHAHAHAHAHAHAHAHA!

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions, emails:	0.5
Team discussions, emails:	0
Design:	0
Coding:	3.75
Testing & Debugging:	0
Research, training, learning:	0.75
Other:	3.5
TOTAL:	8.5
<u>IN ABSOLUTE TOTAL:</u>	
Types of hours;	SPENT;
supervisor discussions, emails:	2.25
Team discussions, emails:	0
Design:	2
Coding:	28
Testing & Debugging:	4.25
Research, training, learning:	27.75
Other:	35.25
TOTAL:	99.5

Date	Duration	Туре	Description of completed work	Challenges and/or Next Steps
3/24/2025 4:30PM to 8:30PM	4 hours	CODING!	KAY; SO, instead of copy + pasting from my notes, I'm just gonna summarize;;	Incorporate Github Projects!!!
		GLORIUS,	Over the last week, I noticed the lack of C# specifc support with	Create custom-versions of AES & Kyber/Kyber-like-library, and test
		GLORIUS	BouncyCastle, the main library I've been using for the pqc-type	encrypt/decryptability against them; if I can decrypt using standard, a thing
		CODING!	funcitons I've been pulling.	encrypted from my custom- and vise-verse (decrypt a standard encryption,
			And, since I *don't* have the memory of a goldfish (lol), I	etc); I've done it!
			remembered the *several* times I lost internet here, back at home.	
			So, I reasoned- what if I need something not within a saved PDF, but	
			need/want a reference to some code?	АНННИННИННИННИННИННИННИННИННИНН
			Plus, since I wanted/needed some experience with the codebase	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE
			itself, so I could attempt to wrap my head around how the	AUTHENTICATION/VERIFICATION
			algorithim works, since I'm reading their meanings & reasonings &	
			processes alongside them	Keep coding!
			I went to my Java compiler and did a bunch of bouncyCastle	
			Nonsense! MWAHAHAHA!	
			NOW- *none* of this is setup for my project, specifically, BUT, since	!
			I was learning simultaneously with asecuritysite's code &	
			explainations (outdated in some segments, as they are), alongside	
			several other sites I found while scronging around I at least have	
			something! Worst comes to worst, I spend a buttload of time	
			attaching a Java-file to my project, in the world's largest showcase	
			of hole-jank; but, it's a pitfall that's covered! MWAHAHAHAHAHA!	

3/27/2025	0.25 hours	Supervisor	YES, AM, NOT PM; OH, I HAVE BECOME ERROR (but no, on a more	Incorporate Github Projects!!!
1:30AM to 1:45PM			serious note, I'm awake at this ungodly hour, because I was completing non-relevant work) Sent Mcneill the supervisor form & my timelogs, like we agreed I would, I suppose what is yesterday, now There's a bit of confusion	
			has stated that, in previous semesters, *he's* been contacted by the 4900 team for the supervisor-reports & such; but when those have happened, they typically have already, by now. Additionally, he	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc.); I've done it!
			stated concern about the status of his institution-email; he said he might not be getting things through it;; So, we agreed that, come wednesday, if he hasn't received anything from them, *I* would send him the supervisor form from the blackboard, alongside my	OH GOD GITHUB UPDATE THE GITHUB YOU FOOOLLLL АННННННННННННННННННННННННННННН
			timelogs which I just did. MIND; I said that while being under the impression that the form was a him-only thing; but when I *literally just looked at it, right now*, it seems that, I too, complete some	FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
			info. I dropped the ball, again. How, suprising.Regardless; my current gameplan is to email someone (AJ or Kathrine) in the morning, and hopefully recieve some help in/with the clarification onwards!Tally-ho, and all that; I'm gonna go to sleep, now.	Keep coding!
3/27/2025	0.25 hours	Other	Sent that email!	Incorporate Github Projects!!!
12:15PM to 12:30PM			W000000.	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				OH GOD GITHUB UPDATE THE GITHUB YOU FOOOLLLL АННННННННННННННННННННННННННН
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
				Keep coding!

3/27/2025 12:45PM to 1:45PM	1 hours	Other	While it took an uninstallation, reinstallation, and some software fixing; I finally updated the Github! Another thing off the list	Incorporate Github Projects!!!
			My major goal is to get everything NOT coding-based *out of the way* by Friday, minimum- so I CAN just get to coding!	Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				On github- update; - The Readme - REimplement a project manager- I KNOW we didn't like it when we tried like, a month back, but we GOTTA
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
				Keep coding!
3/28/2025 10:00AM to 10:15AM	0.25 hours	Supervisor	Sent Prof McNeill that confirmation email- about/with the details Kathrine sent me, about how all this works!	Incorporate Github Projects!!!
				Create custom-versions of AES & Kyber/Kyber-like-library, and test encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption, etc); I've done it!
				On github- update; - The Readme
				- REimplement a project manager- I KNOW we didn't like it when we tried like, a month back, but we GOTTA
				FORMAT SOME WINDOWS FOR KEY EXCHANGE SIGNATURE AUTHENTICATION/VERIFICATION
				Keep coding!

3/28/2025	3.75 hours	Coding	I MADE THE WINDOWS KEY-EXCHANGE TAB!	Incorporate Github Projects!!!
5:45PM to 9:30PM				
			ML-DSA IS A GO!	Create custom-versions of AES & Kyber/Kyber-like-library, and test
				encrypt/decryptability against them; if I can decrypt using standard, a thing
			STARTING ON SABER!!!	encrypted from my custom- and vise-verse (decrypt a standard encryption,
				etc); I've done it!
				On github- update;
				- The Readme
				- REimplement a project manager- I KNOW we didn't like it when we tried
				like, a month back, but we GOTTA
				SABBBERRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
				Keep coding!
3/30/2025	0.5 hours	Coding	I Actually can't say much progress was made- just more saber	Incorporate Github Projects!!!
5:45PM to 6:15PM			nonsense	
				Create custom-versions of AES & Kyber/Kyber-like-library, and test
				encrypt/decryptability against them; if I can decrypt using standard, a thing encrypted from my custom- and vise-verse (decrypt a standard encryption,
				etc); I've done it!
				On github- update;
				- The Readme
				- REimplement a project manager- I KNOW we didn't like it when we tried
				like, a month back, but we GOTTA
				SABBBERRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
				Keep coding!

3/30/2025 6:45PM to 10:30PM	3.25 hours	OTHER	GUESS WHO JUST REMEMBERED THAT THE SLIDES ARE A THING???	Incorporate Github Projects!!!
6.45PW to 10.30PW			GOD, I'M A DUMBASS!	SLIIIIIIIDDDDDDDDDDEEEEEEEEEEEEEESSSSSSSSS
			I'll finish in the morning, GOD!	SEMMINOUDO DO DE LECCELLE LE LE SOSSOSSOSSOSSOSSOSSOSSOSSOSSOSSOSSOSSOS
			The mish in the morning, dob.	Create custom-versions of AES & Kyber/Kyber-like-library, and test
				encrypt/decryptability against them; if I can decrypt using standard, a thing
				encrypted from my custom- and vise-verse (decrypt a standard encryption,
				etc); I've done it!
				On github- update;
				- The Readme
				- REimplement a project manager- I KNOW we didn't like it when we tried
				like, a month back, but we GOTTA
				SABBBERRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
				Keep coding!
3/31/2025 7:45AM to 9:00:AM	1.25 hours	OTHER	SLIIIDESS NEED TO UPLOAD AHHHHH I'M ALREADY LATE BY A FEW MIN AHHHHH	Incorporate Github Projects!!!
				SLIIIIIIIDDDDDDDDDDDEEEEEEEEEEEEEEESSSSSSSS
				Create custom-versions of AES & Kyber/Kyber-like-library, and test
				encrypt/decryptability against them; if I can decrypt using standard, a thing
				encrypted from my custom- and vise-verse (decrypt a standard encryption,
				etc); I've done it!
				On github- update;
				- The Readme
				- REimplement a project manager- I KNOW we didn't like it when we tried
				like, a month back, but we
				GOTTASABBBERRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
				Keep coding!

github link: https://github.com/AHMED-OMER-Program01/CISC_4900_PROJECT-

Week reflection:

Well- while I was happy with the coding progress I made this week;

A good example of nothing in this world being free is how I'm currently late (as far as I'm aware) for/of my uploading. I forgot- it was Eid, sue me.

THIS WEEK	
Types of hours;	SPENT;
supervisor discussions,	0.5
emails:	
Team discussions,	0
emails:	
Design:	0
Coding:	8.25
Testing & Debugging:	0
Research, training,	0
learning:	
Other:	5.75
TOTAL:	14.5
IN ABSOLUTE TOTAL:	
Types of hours;	SPENT;
	<u>SPENT;</u> 2.75
Types of hours;	<u> </u>
Types of hours; supervisor discussions,	2.75
Types of hours; supervisor discussions, Team discussions,	2.75
Types of hours; supervisor discussions, Team discussions, emails:	2.75 0
Types of hours; supervisor discussions, Team discussions, emails: Design:	2.75 0 2
Types of hours; supervisor discussions, Team discussions, emails: Design: Coding:	2.75 0 2 40.25
Types of hours; supervisor discussions, Team discussions, emails: Design: Coding: Testing & Debugging:	2.75 0 2 40.25 4.25
Types of hours; supervisor discussions, Team discussions, emails: Design: Coding: Testing & Debugging: Research, training,	2.75 0 2 40.25 4.25 27.75