Week 2 Tasks

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October 26, 2023

This Week Tasks

- 1. Encryption Algorithms
- 2. Code of each encryption algorithm
- 3. Numerical Methods Algorithms
- 4. Improve algorithm by using the numbers you get from radio labeling as passwords
- 5. Factors that affect the performance of encryption algorithms

We may use last year project numerical methods project

Week Link on Github Repo

Encryption Algorithms

- 1. AES
- 2. DES
- 3. RSA
- 4. Diffie-Hellman
- 5. SHA 1, 256, 3 algorithms

We may also add:

- 1. Blowfish
- 2. Twofish
- 3. Triple DES

Numerical Methods

Methods We already know:

- 1. Solving equations by factoring
- 2. general formula for solving quadratic equations
- 3. Graphical Solution
- 4. Jacobi
- 5. Gauss-Seidel
- 6. Newton
- 7. Bisection

Methods we don't know:

From Dr PDF:

- 1. Trisection Algorithm
- 2. Fixed point Algorithm
- 3. Secant method
- 4. False-Position Algorithm
- 5. Hybrid Algorithm 1 and 2

Outside:

1. Bairstow's Method

Distribution of Tasks

Name	Tasks	
	Encryption Algorithms	Numerical Methods
Mohamed Emary	AES	Secant
Mohamed Abdelfattah	SHA-1 and Diffie-Hellman	Hybrid Algorithm 2 If not Diffie-Hellman
Abdelfattah	SHA-256	False-Position
Dalia	RSA	Fixed Point
Sara	SHA-3	Hybrid Algorithm 1
Shrouk	DES	Trisection

Scheduled for a later time

- 1. Blowfish
- 2. Twofish
- 3. Triple DES
- 4. Bairstow's Method
- 5. Factors that the affect performance of encryption algorithms
- 6. Old Numerical Methods Algorithms
- 7. Prepare last year's numerical methods project so we can try it infront of Dr we will try it on Newton Raphson or Bisection problem from El-Ghamry slides and compare the table generated by our project with the table in the slides.

Very Important Notes

- Use the presentation template from here.
- We all should review Laxman Saha Radio Labeling Algorithm.
- Add the code of each algorithm to the github repo.