Assessment 1 – CryptoHack Project

Weeks: 4–6

Deadline: 2 November, 23:59

Target Score: 500 points

This assessment aims to strengthen your understanding of cryptography concepts through solving challenges on CryptoHack (https://cryptohack.org/).

You are expected to:

1. Work through cryptography challenges
2. Submit both your CryptoHack progress and source code in your GitHub Classroom repository.

📌 **Target Level and Suggested Progress**

Level	Requirement	Example Challenge Points
Beginner	Complete at least 4–6 challenges	10–50 pts each
Intermediate	Complete at least 2–3 challenges	60–120 pts each
Advanced	Attempt at least 1 challenge	≥150 pts

Target Total Score: Around 500 points after three weeks of work.

📌 **Submission Requirements**

You must upload the following two parts to GitHub Classroom:

1. One single PDF file containing:
   a. Screenshot of your final CryptoHack score, showing your username and total score.
   b. Screenshot of your "Solved Challenges" page, showing all the challenges you solved.

2. A clear GitHub Classroom repository with the following:
   a. Each challenge must have its own folder, named exactly as the challenge title (e.g., ` Keyed_Permutations/`, `Computing_Public_Values/`).
   b. Each folder should contain your source code (e.g., `.py`, `.ipynb`, or `.txt` file).
   c. For non-coding challenges (e.g., "Google search" type questions), include a short explanation or comments in the corresponding folder explaining your solution process.
   d. Your repository structure should be easy to navigate and clearly labeled.

e. If your code is found to be plagiarised or suspicious, you will be asked to demo and explain your code in person.

📌 **Assessment Rubric**

Component	Weight	Description
CryptoHack Score	60%	Based on your final total score (target ≥ 500 points).
Code Quality and Organisation	30%	Clear structure, labeling and explanation.
Report (PDF)	10%	Screenshots, formatting and completeness.