**Title of the Project: DES Algorithm Implementation and Analysis**

**Objectives:**

1. **Algorithm Mastery**: Understand the core principles of DES encryption, including key generation and Feistel network structure.

2. **Code Proficiency**: Develop a functional Python implementation of the DES algorithm, showcasing programming skills.

3. **Security Evaluation Assess** DES security through analysis of vulnerabilities and resistance to attacks.

**Outcomes:**

1**. Implemented DES**: Functional Python code demonstrating DES encryption and decryption.

2. **DES Understanding**: In-depth knowledge of DES algorithm's design and operation.

3. **Security Insights**: Awareness of DES vulnerabilities and cryptographic strength.

**Work Flow:**

