

Part 1: Encryption Program

This program is designed to encrypt text using a key calculated from a specific student ID. The key is used to shift the characters in a predefined alphabet array of 61 characters (**alphabet**). Here are the key features and functionalities of the program:

- A key is calculated from a specific student ID, and this key is used to encrypt the text.
- Each character in the text is represented by an index in a specific alphabet (an array named **alphabet** with 61 characters).
- The encryption process involves adding the key to the indexes of the characters.
- The program identifies comment lines by detecting characters between `/*` and `*/` and calculates the length of these comments.
- Encrypted comments are marked with an '@' symbol followed by the encrypted length.

Part 2: Decryption Program

This program is designed to decrypt text previously encrypted by Code 1. The functionalities are as follows:

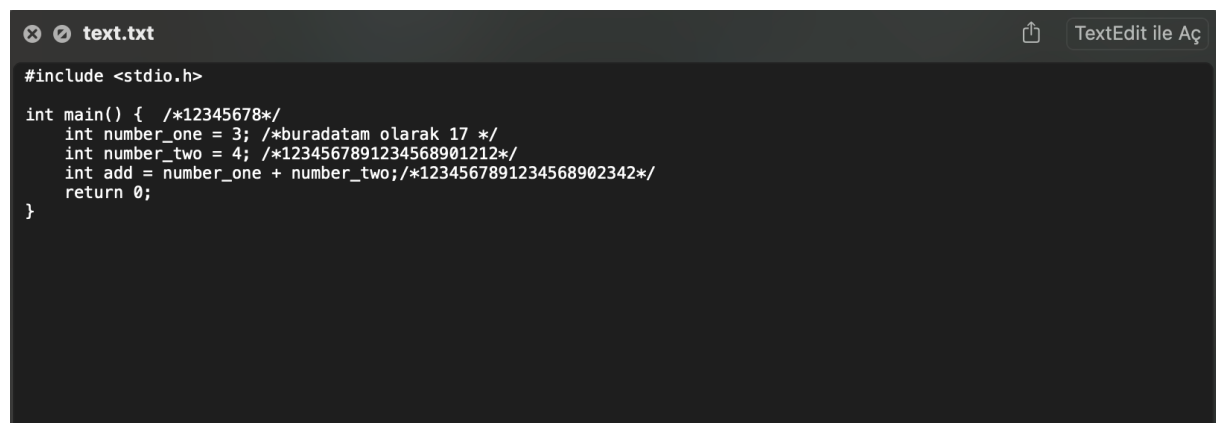
- Each character in the encrypted text is represented by an index in a specific alphabet (an array named **alphabet** with 61 characters).
- The decryption process involves subtracting the key and extracting characters from the indexes.
- The program decrypts comments marked with '@' and prints the original comments.
- It decrypts the encrypted text and prints the result.

Notes:

- The **calculateKey** function calculates a key from the student ID.
- The **findIndex** function finds the index of a character in a given alphabet.
- The **encryptInteger** function is used to encrypt an integer.

These two programs serve as a simple example of text encryption and decryption. Both codes take input text from the user and encrypt or decrypt it using a specific key.

Input:



```
#include <stdio.h>

int main() { /*12345678*/
    int number_one = 3; /*buradatan olarak 17 */
    int number_two = 4; /*1234567891234568901212*/
    int add = number_one + number_two; /*1234567891234568902342*/
    return 0;
}
```

Encrypted text:

```
encrypted_text.txt
4pujs<kl ]z(kpv5o|

pu( thpu/! & @f
  pu( u<tily1vul { a2 @8e
  pu( u<tily1(+v { b2 @99
  pu( hkk { u<tily1vul > u<tily1(+v2@99
  yl(<yu 72
;
```

Decrypted text:

```
decrypted_text.txt
#include <stdio.h>

int main() { /*There is 8 characters as comment.*/
  int number_one = ; /*There is 17 characters as comment.*/
  int number_two = ; /*There is 22 characters as comment.*/
  int add = number_one + number_two; /*There is 22 characters as comment.*/
  return 0;
}
```