PARTH KANNOJIYA TASK-1 TEXT ENCRYPTOR

'use strict';

const crypto = require('crypto');

const ENCRYPTION\_KEY = process.env.ENCRYPTION\_KEY; // Must be 256 bits (32 characters)

const IV\_LENGTH = 16; // For AES, this is always 16

function encrypt(text) {

let iv = crypto.randomBytes(IV\_LENGTH);

let cipher = crypto.createCipheriv('aes-256-cbc', Buffer.from(ENCRYPTION\_KEY), iv);

let encrypted = cipher.update(text);

encrypted = Buffer.concat([encrypted, cipher.final()]);

return iv.toString('hex') + ':' + encrypted.toString('hex');

}

function decrypt(text) {

let textParts = text.split(':');

let iv = Buffer.from(textParts.shift(), 'hex');

let encryptedText = Buffer.from(textParts.join(':'), 'hex');

let decipher = crypto.createDecipheriv('aes-256-cbc', Buffer.from(ENCRYPTION\_KEY), iv);

let decrypted = decipher.update(encryptedText);

decrypted = Buffer.concat([decrypted, decipher.final()]);

return decrypted.toString();

}

module.exports = { decrypt, encrypt };