## main\_module normalise\_letter(x) format\_text(text)

## screen\_constants

run()

START ASK LANGUAGE LANGUAGE SETTINGS ENGLISH MAIN MENU ENGLISH PRINCIPLES ENCRYPTING ENGLISH PRINCIPLES DECRYPTING ENGLISH ASK KEY CAESAR ENGLISH ASK KEY VIGENERE ENGLISH\_ASK\_KEY\_ENIGMA **ENGLISH ASK TEXT ENGLISH ENCRYPTED TEXT ENGLISH DECRYPTED TEXT** ENGLISH HELP PRINCIPLES **ENGLISH QUIT MESSAGE** FRENCH MAIN MENU FRENCH PRINCIPLES ENCRYPTING FRENCH PRINCIPLES DECRYPTING FRENCH ASK KEY CAESAR FRENCH ASK KEY VIGENERE FRENCH\_ASK\_KEY\_ENIGMA FRENCH ASK TEXT FRENCH ENCRYPTED TEXT FRENCH DECRYPTED TEXT FRENCH HELP PRINCIPLES FRENCH QUIT MESSAGE

### screen\_module

show\_start\_ask\_language()
show\_language\_settings()
show\_main\_menu(english: Boolean)
show\_principles(english: Boolean, encrypting: Boolean)
show\_ask\_key(english: Boolean, principle: char)
show\_ask\_text(english: Boolean)
show\_treated\_text(english: Boolean, encrypting: Boolean)
show\_help\_principles(english: Boolean)
show\_quit\_message(english: Boolean)

# test\_caesar\_encryption() test\_caesar\_decryption() test\_create\_table\_of\_vigenere() test\_vigenere\_encryption() test\_vigenere\_decryption() test\_enigma()

tests

test\_format\_and\_normalise()
test\_run()
run\_all\_tests()

### text module

encrypt\_caesar(text: string, key: int)
decrypt\_caesar(text: string, key: int)
create\_vigenere\_table()
create\_table\_text\_key(text: string, key: string)
encrypt\_vigenere(text: string, key: string)
decrypt\_vigenere(text: string, key: string)
create\_initial\_list()
search\_index(initial\_list: list, letter: char)
plugboard(letter: char)
permutation\_reflector(letter: char)
shift\_first\_rotor(return\_path: Boolean, index: int, offset: int)
shift\_second\_rotor(return\_path: Boolean, index: int, offset: int)
shift\_third\_rotor(return\_path: Boolean, index: int, offset: int)
enigma(text: string, key: string)