

Hilal COŞGUN 22201571 CS101-01

declare variables

print the menu and input the choice

WHILE choice is different from 3

WHILE choice is equal to 2

```
print "no message to encode"
```

print the menu and input the choice

```
// user cannot decode before encode
```

IF choice is equal to 1

input the word

compute the length of word

IF length less than 2

```
print "invalid length"
```

print the menu and input the choice

ELSE

set number of repetition equal to length

```
set count to 0
```

WHILE count less than repetition

generate a random index between 0 and (length-1)

generate a random number between 0 and 9

```
        update word by inserting the number in the index
        add 1 to count
        add 1 to length
    generate a random index
    update word by adding space at the index and swapping the first and second part of the word
    print the word
    print the menu and input the choice

    update word by swaping parts back
    WHILE choice is equal to 2
        set index to 0
        print "the decoded message is"
        WHILE index less than length
            IF the char at the index is letter
                print the char
                add 1 to index
            print the menu and input the choice
    ELSE
        print "invalid choice- try again"
        print the menu and input the choice
```

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print "thank you-good bye"