Encryption Algorithm

Test Documentation

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## Test Cases

| **Test Case** | **6 Character Key** | **Message (m)** | **Padded message split into subsequence of 8** | **Shift value 1 and expected result** | **Shift value 2 and expected result** | **Expected final output** | **Actual output** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 123456 | This is a test message | "This is "  "a test m"  "essageaa" | (49+50) MOD 8 = 3  " is Thi"  "st ma te"  "gaaesse" | (51+52) MOD 3 = 1  "gaaesse"  " is Thi"  "st ma te" | eaaessagis This t ma tes | eaaessagis This t ma tes |
| 2 | testkeytoolong | test | testaaaa | (116+101) MOD 8 = 1  “atestaaa” | (115+116) MOD 3 = 0  “atestaaa” | atestaaa  \*expected error due to key too long | atestaaa  \*no error given regarding key length |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |

## Screen Dumps

Test Case 1

A screen shot of a computer code

Description automatically generated

Test Case 2

A screen shot of a computer code

Description automatically generated

As seen above, program accepts a key that is longer than 6 characters