VIGENERE CIPHER ALGORITHM DEVELOPMENT USING
METHOD BINARY BASED KEY SHIFT

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ABSTRACT

The development information technology are quickly. the security of information is
required to keep information that can be passed on to the appropriate parties. Cryptography is the
basis of information security. the data or information are based on the function and network
computer. Vigenere Cipher is one of the classic cryptography algorithm. In the implementation of
cryptography algorithm, the Vigenere Cipher can be called unsafe after created method of kasiski
that can solve cipertext. In this occasion, the writer develope Vigenere Cipher algorithm by
applying the function of XOR operation and shifting bit in plainteks and new key establisment. In
this development of Vigenere Cipher algorithm is expected to eliminate the weakness in key loop
and produce information in the from of difficult solved ciphertext.

Keywords: Vigenere Cipher, shift keys, XOR operation