Nama : Adelia Putri Widyasari

NIM : A11.2022.14426

Kelas : A11.43UG1

**KUIS DIGITAL SIGNATURE**

**Link Github**

<https://github.com/adeliaputriw/Kriptografi-DigitalSignature-43UG1-A11.2022.14426.git>

**p, q, dan e, d**

Masukkan bilangan prima (p): 2003

Masukkan bilangan prima (q): 2521

Masukkan kunci publik e lebih dari 2 < e < 5045040 and pembagi persekutuan terbesar(e, 5045040) = 1: 7669

kunci publik (e, n): 7669 5049563

kunci private (d, n): 21709 5049563

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**Proses dan Hasil Encoding**

Masukan kunci private e: 21709

Masukan nilai n: 5049563

Masukkan path file: ImageDS.jpg

976912158e0a8015efd284a913f36042

Block '9' is 57, 57^21709 mod 5049563 is 3699773

Block '7' is 55, 55^21709 mod 5049563 is 3961440

Block '6' is 54, 54^21709 mod 5049563 is 1859116

Block '9' is 57, 57^21709 mod 5049563 is 3699773

Block '1' is 49, 49^21709 mod 5049563 is 3806989

Block '2' is 50, 50^21709 mod 5049563 is 4338957

Block '1' is 49, 49^21709 mod 5049563 is 3806989

Block '5' is 53, 53^21709 mod 5049563 is 1569114

Block '8' is 56, 56^21709 mod 5049563 is 986116

Block 'e' is 101, 101^21709 mod 5049563 is 4692408

Block '0' is 48, 48^21709 mod 5049563 is 2045350

Block 'a' is 97, 97^21709 mod 5049563 is 3816891

Block '8' is 56, 56^21709 mod 5049563 is 986116

Block '0' is 48, 48^21709 mod 5049563 is 2045350

Block '1' is 49, 49^21709 mod 5049563 is 3806989

Block '5' is 53, 53^21709 mod 5049563 is 1569114

Block 'e' is 101, 101^21709 mod 5049563 is 4692408

Block 'f' is 102, 102^21709 mod 5049563 is 4652900

Block 'd' is 100, 100^21709 mod 5049563 is 442547

Block '2' is 50, 50^21709 mod 5049563 is 4338957

Block '8' is 56, 56^21709 mod 5049563 is 986116

Block '4' is 52, 52^21709 mod 5049563 is 275221

Block 'a' is 97, 97^21709 mod 5049563 is 3816891

Block '9' is 57, 57^21709 mod 5049563 is 3699773

Block '1' is 49, 49^21709 mod 5049563 is 3806989

Block '3' is 51, 51^21709 mod 5049563 is 2719570

Block 'f' is 102, 102^21709 mod 5049563 is 4652900

Block '3' is 51, 51^21709 mod 5049563 is 2719570

Block '6' is 54, 54^21709 mod 5049563 is 1859116

Block '0' is 48, 48^21709 mod 5049563 is 2045350

Block '4' is 52, 52^21709 mod 5049563 is 275221

Block '2' is 50, 50^21709 mod 5049563 is 4338957

Digital Signature : 36997733961440185911636997733806989433895738069891569114986116469240820453503816891986116204535038069891569114469240846529004425474338957986116275221381689136997733806989271957046529002719570185911620453502752214338957

**Proses dan Hasil Decoding**

73^23 mod 143 is 57 which is '9'

22^23 mod 143 is 55 which is '7'

98^23 mod 143 is 54 which is '6'

73^23 mod 143 is 57 which is '9'

69^23 mod 143 is 49 which is '1'

19^23 mod 143 is 50 which is '2'

69^23 mod 143 is 49 which is '1'

92^23 mod 143 is 53 which is '5'

23^23 mod 143 is 56 which is '8'

95^23 mod 143 is 101 which is 'e'

16^23 mod 143 is 48 which is '0'

37^23 mod 143 is 97 which is 'a'

23^23 mod 143 is 56 which is '8'

16^23 mod 143 is 48 which is '0'

69^23 mod 143 is 49 which is '1'

92^23 mod 143 is 53 which is '5'

95^23 mod 143 is 101 which is 'e'

97^23 mod 143 is 102 which is 'f'

133^23 mod 143 is 100 which is 'd'

19^23 mod 143 is 50 which is '2'

23^23 mod 143 is 56 which is '8'

13^23 mod 143 is 52 which is '4'

37^23 mod 143 is 97 which is 'a'

73^23 mod 143 is 57 which is '9'

69^23 mod 143 is 49 which is '1'

116^23 mod 143 is 51 which is '3'

97^23 mod 143 is 102 which is 'f'

116^23 mod 143 is 51 which is '3'

98^23 mod 143 is 54 which is '6'

16^23 mod 143 is 48 which is '0'

13^23 mod 143 is 52 which is '4'

19^23 mod 143 is 50 which is '2'

Hash Pesan : 976912158e0a8015efd284a913f36042

Digital Signature : 976912158e0a8015efd284a913f36042

Pesan ini SAH.