Sri Lanka Institute of Information

Technology

**Introduction to Cyber Securit**

**y**

**-**

**IE202**

**2**

Lab Submission 02

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**–**

**Exercise 1**

i. Key = 3

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plaintext | E | N | C | R | Y | P | T | I | O | N |
| Ciphertext | H | Q | F | U | B | S | W | L | R | Q |
| ii. Key = 13 | |  |  |  |  |  |  |  |  |  |
| Plaintext | C | R | Y | P | T | O | L | O | G | Y |
| Ciphertext | P | E | L | C | G | B | Y | B |  |  |

iii. Key = 24

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plaintext | W | H | E | R | E | A | R | E | Y | O | U |
| Ciphertext | U | F | C | P | C | Y | P | C | W | M | S |

# Exercise 02

1. Key = 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ciphertext | T | E | W | W | Z | S | V | H |
| Plaintext | P | A | S | S | V | O | R | D |

1. Key = 12

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ciphertext | U | ‘ | X | X | F | T | U | Z | W | M | N |
| Plaintext | I | ‘ | L | L | T | H | I | N | K | A | B |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | G | F | F | T | M | F |
| O | U | T | T | H | A | T |

# Exercise 03

Key: MAP

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plaintext | A | U | T | H | E | N | T | I | C | A |
| Key | M | A | P | M | A | P | M | A | P | M |
| Cipher text | M | U | I | T | E | C | F | I | R | M |

|  |  |  |  |
| --- | --- | --- | --- |
| T | I | O | N |
| A | P | M | A |
| T | X | A | N |

# Exercise 04

Key: WORD

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plaintext | T | H | I | S | W | A | S | H | A | R | D |
| Key | W | O | R | D | W | O | R | D | W | O | R |
| Cipher text | P | V | Z | V | S | O | J | K | W | F | U |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| T | O | B | R | E | A | K | B | E | C | A | U |
| D | W | O | R | D | W | O | R | D | W | O | R |
| W | K | P | I | H | W | Y | S | H | Y | O | L |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S | E | T | H | E | R | E | W | E | R | E |
| D | W | O | R | D | W | O | R | D | W | O |
| V | A | H | Y | H | N | S | N | H | N | S |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | O | S | P | A | C | E |
| R | D | W | O | R | D | W |
| E | R | O | D | R | F | A |

# Exercise 05

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cipher text | S | A | L | T | J | R | P | Z | L |
| Key | P | E | N | P | E | N | P | E | N |
| Plaintext | H | E | Y | I | N | E | E | D | Y |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cipher text | Z | Q | E | W | W | C | E | K | C |
| Key | P | E | N | P | E | N | P | E | N |
| Plaintext | O | U | R | L | A | P | T | O | P |

# Exercise 06



