**Cryptography and Network Security  
Lab Assignment - II**

**Program 1: Fast Exponentiation using Successive Square**

**Code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Input/Output:**

**A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

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AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

**Program 2: Extended Euclidean s, t, d**

**Code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Input/Output:**

**A screenshot of a computer screen

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

**Program 3: Multiplicative Inverse using Extended Euclidean**

**Code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Input/Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

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AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Program 4: Multiplicative Inverse using Fermat’s Theorem**

**Code:**

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AI-generated content may be incorrect.**

**Input/Output:**

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AI-generated content may be incorrect.**

**Program 5: Multiplicative Inverse using Euler’s Theorem**

**Code:**

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AI-generated content may be incorrect.**

**Input/Output:**

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AI-generated content may be incorrect.**

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**Program 6: Chinese Remainder Theorem**

**Code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Input/Output:**

**A screen shot of a computer

AI-generated content may be incorrect.**

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**Program 7: Miller Rabin Primality Testing**

**Code:**

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AI-generated content may be incorrect.**

**Input/Output:**

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AI-generated content may be incorrect.**

**Program 8: P-Box and S-Box Testing for Simplified-DES**

**Code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Input/Output:**

**A screen shot of a computer

AI-generated content may be incorrect.** **A screen shot of a computer

AI-generated content may be incorrect.**