Note: '>>' means user input

P1)

Examples:

Welcome to FCI Calculator

- 1- Perform Addition
- 2- Perform Subtraction
- 3- Exit

>> 1

>> 123456789012345678901234567890

num1 = 123456789012345678901234567890

>> 113456789011345678901134567890

num2 = 113456789011345678901134567890

num1 + num2 = 236913578023691357802369135780

Welcome to FCI Calculator

- 1- Perform Addition
- 2- Perform Subtraction
- 3- Exit

>> 2

>> 12300000000000000001

num1 = 1230000000000000001

>> 300000000000000001

num2 = 3000000000000001

Welcome to FCI Calculator

- 1- Perform Addition
- 2- Perform Subtraction
- 3- Exit

>> 1

>> - 1230000000000000001

num1 = - 1230000000000000001

>> 300000000000000001

num2 = 3000000000000001

Welcome to FCI Calculator

- 1- Perform Addition
- 2- Perform Subtraction
- 3- Exit

>> 3

P2)

Example:

Output:

Welcome to FCI Fraction Calculator

.....

- 1- Perform Fraction Addition
- 2- Perform Fraction Subtraction
- 3- Perform Fraction Multiplication
- 4- Exit

>> 1

>> 1/2

>> 1 / 4

3/4

Welcome to FCI Fraction Calculator

- 1- Perform Fraction Addition
- 2- Perform Fraction Subtraction
- 3- Perform Fraction Multiplication
- 4- Exit

>> 2

>> 1 / 4

1/2

Welcome to FCI Fraction Calculator

1- Perform Fraction Addition 2- Perform Fraction Subtraction 3- Perform Fraction Multiplication 4- Exit >> 4 P3) Example: Welcome to FCI Matrix Calculator 1- Perform Matrix Addition 2- Perform Matrix Subtraction 3- Perform Matrix Multiplication 4- Matrix Transpose Input: 1 22 55 55 22 3 1 13 Output: 86 68 P4) **Examples: Input**: 2 3 Output: 8

Input: 3 2

P5)

Example: Input : ABCA

Output : AABC AACB ABAC ABCA ACBA ACAB BAAC BACA BCAA CABA

CAAB CBAA

P6)

Examples:

Input:

Osama Ahmed

3

1

Output:

True

- (1) Osama
- (2) Ahmed
- (3) Osama

Input:

Osama Ahmed

4

1

Output:

False

- (1) Osama
- (2) Ahmed
- (3) Ahmed