

## Independent University Bangladesh (IUB)

Course ID: CSC301 Semester: Summer 2021 Section: 01

Submitted To:

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Submitted By:

Group k

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Assignment1

## Problem Solution

1.

The prefix, suffix, substraing and subsequence with their length for following string are given page I and 2.

2. The Alphabet  $2 = \{0,3\}$  length for each string are given page 2,3,4,5

3. Sum of Sibo sequence and Produce output are given page 5 and6

(a) From	Lexical	Alphabet	d , string	ames	s,
	Predix	suffix	sub-string	Sub-Scauser	Le
dhaka	*	- v	7	110	5
dhakacity	*	>		11.0 77	9
Underamess	*	×		001.00	10
mess		×		8020	4
Under a			×	1,-1,000	6
city under			X		9
dhakaundering				*	14
city ames)		<b>X X X X X</b>		8 - 27062	
(b) From	Decimal	Alphabet	D, straing		
	Decimal Proesix	Alphabet		8 - 27062	
	•				0 21
(b) From	Priesix			8 - 27062	0 21 Le
(b) From 2766 276 0256	Priesix	suffix x		8 - 27062	L = 4
(b) From 2766 276 0256	Priesix	suffix		8 - 27062	L 4
(b) From  2766 276  0256  2021	Priesix	suffix x	sab-string	8 - 2706 2 sub-sequence	0 21 Le
(b) From 2766 276 0256	Priedix X	suffix x	sub-string	8 - 27062	L 4

١	The same of the sa							
	(C) From	From Bimorry Alphabel B, string B=101110010011011						
	telelo e po	Priesix	×illus	sub-string	Sub-Seque	Length		
franchise and the second	10111	*	- Carl la	- xila	79	5		
The second secon	11011		×	2	glion	7 3		
	00100		* * ;	X ×	73 mg/201 K	5 · · · · · · · · · · · · · · · · · · ·		
	1101111101	× ×			*	16		
	×				>	6		

Answere to the question no -02

$$\frac{4}{2} = (0,3), (0,3), (0,3), (0,3)$$

$$= (00,03,30,33), (0,3), (0,3)$$

there are 16 mumber of string and length each string 4.

(b)  $2^{7} = (0,3)(0,3)(0,3)(0,3)(0,3)(0,3)(0,3)$ = (00,03,30,33)(0,3)(0,3)(0,3)(0,3)(0,3)

- (000,030,300,330,003,033,305,333) (0,3) (0,3) (0,3) (0,3)

=(0000,0300,3000,3300,0030,0330,3050,3330,0003,0303,3003,3003,3030,3003,3030,0033,0333,3053,3333)

= (0,000, 03000, 3000, 33000, 00300, 03300, 30500, 33300, 00030, 030030, 030030, 30530, 33330, 00033, 03003, 30003, 30003, 30003, 30003, 30033, 00333, 00333, 30533, 30533, 33333, 00333, 03333, 30533, 30533, 33333) (0,3) (0,3)

= (000000, 030000, 300000, 330000, 003000, 033000, 003300, 003300, 003300, 003300, 033300, 003000, 003

## = 330333, 0033333, 0333333, 305333, 3333333) (0,3)

= (0000000, 0300000, 3000000, 3300000, 03300000, 03300000, 3303000, 3303000, 3303000, 3303000, 3303000, 3303000, 3333000, 3333000, 3333000, 3333000, 3333000, 3333000, 3333000, 3333300, 03333300, 033333300, 03333300, 0333300, 0333300, 0333300, 0333300, 0333300, 0333300, 0333300, 0333300, 0333300, 0333300, 033

 There 128 number and length of each string 7.

1111111111

Answer to the auestion no -3 Z, LO Z, <0 Z3 <- 1 Zu X X 75 to 0 Y < 0 IAJ is Z, & Za DOTO B GOTO F TBJ Y L Y + ZL 75 6 Z1+Z3 72 E Z3 73 × 75 マノ 左マナリ CroTO A

from this assignment we learned how I to find old the prefix, suffix, sto substring and subsequence of any given string and I also we learned how to find the string and string length of given alphabets. Also we are triging to sum of fibo sequence and produce output.