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Unit: 2 Regular Languages

* Regular Languages:

Regular Languages is a language that can be expressed with a Regular expression.

A Regular Languages is set of string which made up of characters.

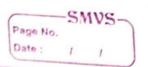
Regular Languages is the most restricted types of Languages.

Regular Languages are expected by Finite Automata.

- -> Operations of Regular Languages
- ci) Union: IF A and B are two regular languages then Union OF A U B is also union.
- (ii) Intersection: If A and B are two regular languages then intersection of AnB is also follow intersection operation.

સંપ અને શાંતિ માટે સહન કરવું ફરજિયાત છે.

-ciii)	Kleen Closure: IF A is a
	realless lessons II so
	regular language then its Kleen Closure A* is also
25.2	La closure A 15 also
	be a regular language.
*	Regular Expression:
Tay I	REGUIAP EXPRESSION.
	Popular La
	Regular Language accepted
	by Finite automata can
	used to described by Regular
	Expression
200	A DATE STEDIO O AM BONTS
	Regular Expression is used to
	define sequence of pattern
	OF String
1940	しているスプトでする こうかい かんかい スナンのかっ
	Ex. Ca+60#
-17.0 T	at Quality were wind in the covere
大学技艺	Regular Homotian and
£74	Expression = In, a, b, ab, aa.
AZ W	
~	さいこうない サイント アンストローン
1	Note: de manie some
TO SERVICE STATE OF THE SERVIC	
12.4	* -> Clean closure which
NA TON	contain null String
	which is denoted by 1 or
1-4-7	SALVE STANCE OF A FOR
11	



+ -> Positive closure which does not contain null string

a + = 21, a, aa, ... 3 a + = 2a, aa, aaa, --- 3

Ex. Example of Regular Expression

a string having zero or more a

-> Regular Lan. = [1] a, aa, --- 3
Regular Exp. = a*

6 String end with a

-> Regular Lan. = &a,ba,aa,aaa,-..}
Regular Exp. = Ca+63*a

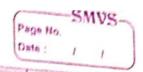
C String Start with a and End with b

-> R.L = {ab, aab, abb, aabb, --- } R.E = aCa+b>*b

d string having one or more a

-> R.L = &a, aa, aaa, --- 3 R.E = a+

	SMVS			
	Page No. Date: / /	- 12	4	
		=		
e	Binary String Start with o and end with I	j	5.	
	2			
	R.L. = 201, 001, 011, 0011, 3	-)	R	
-147	R.E = 0C0+10*1		R	
-	Clair Clair Charles and Charles			
-	String should contain at least 3 One			
	least 3 One	10	1968	
-5	R.L. = £777 7077 0777 1707 13		17	
	R.L. = {111 1011, 0111, 1101,:} R.E = CO + 15 * 1 CO + 15 * 1 CO + 15 *		-	
2	10+1)*	-	$+S_1$	
	- Adam Adam Adam Adam Adam Adam Adam Adam	-	0	
^	String should have odd Length		10	
9	STATIS SHOOTS HOVE GOOD ECHISTIN		1	
	R.L = 20, 7,010,011,01101,	1	0.	
	2 = (-0.5) (-1.125) *		15/24	
	R.E. = (0+1) ((0+1)(0+1))	.11		
1			15	
<u>_</u> h	String end with I and not		5	
	contain od	211.0	-	
New A	R1 = 51 07 017 1016 == }	*	J	
-2	R. L - 2 1, 011, 1010,	منقا		
The second	R.E = (1+01)*		_5	
	$R_{1} = C + T + O + O + O + O + O + O + O + O + O$		-0	
i			_ h	
	String of Length 6 or less		-	
	RE = CO+1+106		15	
-)	R.E = C0+7+7)		-	
You			3	
	A constant of the constant of	1		
	ા - પ્રતા દ્રોવળી હે જેતાશી સંપ, સ્હૃદયભાવ અને એકતામાં વધારો થાય.			



j String Begins or ends with 00 or

-> R.L. = £0011, 00011, 00111, --3 R.E. = & Coot11)Cot10* + Cot10* Coot11)

* Indistinguishable string:

Suppose Lis a Regular Language and X and Y is a string which present in 1.

Suppose Z is one string.

If Combination of XZ and YZ both are present in L.

So, this String is called Indistingui-Shable String

Distinguishable String:

Suppose, Lis a Regular Language and X and Y is a string which present in L.

Suppose Z is one string,

- : = किशात धे

