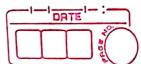
	Devarsh shah
	ITC Tutoria 3 B2 B2
	Symbol Probability P(Xi) (ode (ode length 1(Xi) P(xi) )
0)	A 0.3 (ode (ode length 1(Xi) P(Xi) x L(Xi)
	B 0.25 10 0.30
	C 001 > 0.2 01 0 1101 10 1013 1 0.50
	D 0.158.01 1110 4 0.60
	E 0.) 11110 5 0-60
	of the pred regulary 0.50
	Avg Code length = EP(Xi) x 1(Xi)
	= 0.3 + 0.5 + 0.5 + 0.5 + 0.6 = 2.5 bits
	= 2-5 bits
	Entropy = SP(Y)
	Entropy = 2 P(Xi) log (mal)
-	P(XI) de state to
	= 0-3 log 1 + 0-25 log 1 + 0-25 log 1 + 0-25
10	0.2 log_ 1 floort 0.15 days 110
	moreno + 00 10 100 1 100 100 15
1- 102	Marino Teno Jodos Commanos sutilous de cons
	1.0 Jatas sutal 0.1
1010	1. 228 - 002 - 228 NT ptob score dat sin /
100	1 Painted painted
	cole Efficiency = Entropy
1	And specific of the land for the desperation
no to	2-228/1
•	2.5 17 porto
	= 0-8912
	Superior durage
	ode efficiency / = 0-8912 X 100
000	100 00 11 100 00 100 100 100 100 100 10
10	22 tolo 10 0 0 0 10 10 10 10 10 10 10 10 10 10
	n-the vanall all all all
	20/9/1 20/220/ KE 3/979/ 0x0/1/2
Ellips.	

	dode denous
	lode redundancy = 1 - code efficiency
	lade redundancy = 1-1018912 del
(x,y)	= 0.1088
04	0.25
US	Lode redundancy 1:1 = 0.1088 × 100
0	Code redundancy
.09	7 2 1111
	Difference between lossy and loss loss Compression
02)	The state of the s
NA et	Lossy Compression loss las Compression
0-6	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	Lossy compression is the while lossless does not
	and of aliminate fraction of
	that data which is not noticeable
<u> </u>	not noticable ? 5.0 + ( no) E.O =
2	In this afile does In this file can be restored
	not restore or rebuilt in its original form.
2	in its original form
3	Data quality's compromised Does not compromise the
$\lambda$	This has more date This has less date
7)	holding capacity holding capacity comparatively
	postri = mainifil olo)
	When average code length approaches the
	entropy of DMS it is said to be entropy
	encoding. It is a loseles data
	Compressing scheme.
	Shannon (Fanolt coding 1) (000)
	) list the symbols in order of decreasing probability
	) Split the 2 sets that are as close to
	equipso bable as possible. Upper set -D lours set 1
	Scanned with CamScanner



ilg)	continue this process each time positioning them into sels until fruither splitting is not possible
	into sele 12,101 process each time positioning them
A	toother eplitting is not possible
(2)	Noftmann working is not possible
1	2001.00
1)	List the source
11:	List the source symbols in decreasing possibility Lambine Ambolisis
i)	Lombine probabilities of 2 symbols with continue this is a reduction remaining step until possibilities are step
	resultant probability of 2 symbols with
	Lontinue this is a reduction
1.	remaining possibilities care
_tii)	Start Century No. 11
	digit - 0 last divit - 1 beduction, first
1	remaining the last reduction, first
IV	Now allies 0 & 1 to 2 d dimit
	Now assign of I to and digit in the previous step and keep doing All first column is reached.
	fixet column is reached.
-	Service of the Many Br. Many
	The state of the s
100	
	A STATE OF THE STA