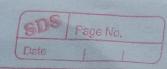
Shreyous Sawant SDS Page No Hashing & Collision resolution Techniques The keys 121, 183, 133, 24, 35, 236, 58 & 157 are inserted into an initially empty hash table of length 100. a. Show the Hash Table after insertion using mid-quere method and wherver collision occurs use Pouble Hashing (given h1(k) = kmod 100 and h2(k) = kmod 98 Index - 46 121 × 121 = 14641 Ans 183×183 = 33489 index - 34 index-76 133 × 133 = 17689 24×24 = 576 index - 7 35+35 = 1225 index-22 236 x 236 2 55696 index - 56 .58 × 58 = 3364 index - 36 157×157 = 24649 index - 64 Hash Table 24 AB. 阳 22 35 34 183 36 58 121 236 56 64 157 76 183



b Show the hash table after insertion using Folding method and wherever collision occurs we Quadratic Broking (c,=1, c,=3)

45	1									
Ans	Key	121	183	133	24	35	236	58	157	
		2								The second second
	Parts	12 81	18 3	133	24	355	23.6	5\$8	157	
				1 3	F	-36	- (4) d			Total Street, or other Designation of the last of the
	¥(2)	13	21	16	6	8	29	13	22	
								2		д

Collision at index 13. -. f(58,0)= 13+1.0=14

Hash table ?									
	8 0	24							
	8	35							
	1:3	121							
	14	58							
	16	133							
	21	183							
	, 22	157							
9	29	256							
	160								

2. Consider simple howh function " key mod 7' and keys as
50, 700, 76,85,92,73,101 into Hash table of \$ size 7
using Collision resolution techq as separate chaining. Show
final hash table after insenting

Ars mags = 50 n(k) = \$ k 1/7 = 50% 7 = 1

