ab) As in my folder, there is kripto. py. folder which give me the number of coincidence when we shift the tex. According to so when most conner concidences a ppear when shift by 2, 14, 21. From the result, it estimete that Leg legth is 2 when I prouped Hen by 7 i. I dinde the text 1. to subgroups in my cocke line 13. When I apply the frequency analysis for fifthe groups I've 1. 14 18 24 S Y - 4 14 E ky: W k=k: m A W 2 D B S kg: 8 6 W 6 3 19 A 16:5 e 0 7 3 2° C

Scanned with CamScanner

Q2) We know (x,B) O. 0 +B=7 H C. 1 ? - in English C car ben'N", "M", "S", "T" "T" -> C "N" -C "m" -1 C Thi x = 21 (mod 26) 18, x = 21 (mod 26) 19.x=21 (mod 26) 13.x+7=3 JAST OPTION 13. x = 21 (mod 26) ue con not find ory a value since 13 18 choose & as 23. They can not since +4 dinades 26 remainer so planlette the energy from supports. and 18 are ever number, and 26 Ts every remainer should cornet be N. be even either. We found & = 23 and B = 7. For decryption lay: 23 = 17 (mod 26) x = 17 Y=11. 13. N -3 U120 0: A > H: } succe ssful man is one who 141 m - 1 × 123 1 :B 7 E: 4 210 78:1 15:0 - R:17 can lay a firm foundation with the 16.4-1-310 7 5124 17: 0 - bricks offers have thrown at him, 6. E -> V:21 18: R - 1:8 5. F - S: 18 191 Sm f:5 6167 -20, T-> C12 71 H - M:12 21,47 2,25 8:1 - 1:19 221 V-> -23:W- T:19 9,17 -26: 4 - N:13 101K-D13 25,17-11: L- A:0 9\$1. 11: M9 X:23

d3) Since ar alpabet is byron and 31 letters in it the modulo should be 31* 31=961. This is ar modulo. And for the began value 9cd[a,b]!=1.

Beta on be any vehice bethen 0-960. Berause A just shrifts. However, alpha con ret take on value that the day value that the bas god (9,6)!= ± Since B1 Is phore, only the factor of 31 cannot be alpha. Since 961 To 31.31

Total Lay space D 961 # 930 = 893730

```
Q5) 6. (S, A, N, 1, T, Y, ? = 6. 8 19,0,13,8,19,263
```

A RR NN RW TB IGROFF BAJL R. HMLRADA WG

0 1717 13 13 16 22 19 1 86 16 1444 1024 11 16 7 12 11 17 0140 226

-18 -0-13-8-19-24-18-0-13-8-19-26-18-0-13-8-19-24-18-8-15-8-18

8 /17 4 5 20 18 4 19 14 0 13 18 22 417 19 7 0 19/16 294 1819 8 1413 1413

I REFUSE TO ANSWER THAT RUESTION ON.

R2E T2HSFDF 3A 9L I QWG'R CN8E MFW
17254 1925718535 102411 8 16226 17 21314 171521
-24-18-0 -3-8-19-24-18-0-0 -8-19-24-19-0 -13-8-19-14 -14-0-13-8 -19-24-18
19 74 6 17 14 20 13 3 18 19 7 0 19 8 3 14 13 19 10 13 14 12 19 7 4
THE GROUNDS THAT I DON'T KNOW THE

A A A P C J 0 0 0 15 2 9 -0-13 -8-19-24-18 0 13 18 22 4 17 AN S WE L.