## Input Type for Each Ripher Help:

1) Shift righer:-

key = { >c: 1 \le >c < 26 & >c \in NT}

Notice that key can be any integer

between 1 and 25, including 1 and

25.

2) Calsar Ripher:

Mo key required, since Caesar Cipher is a special case of shift Cipher where shift k = 3.

3) Monoalphabetic Cipher:

No key required, we may some alphabets to other alphabets randomn's, hence choosing our own ky while hard coding the values.

4) Polyalphabetie Cipher: key is any string with only alphabets shorter than the pluintent. than

K="abcdef..."

St lenk \le (p)

Where p is plaintent., ke {a,b,c,...,z,A,B,c,}

for all k \(\eplice{K}\)

A. 5) Playfair Cipher: logth with key is any string of any only alphabets.  $for all k \in K$ K= "Abc..." 6) One-Jime-Pad: key is not required. Each time the app is 2 and omn'y roopened, a new ky is generated.

7) Hill Cipher: key needs to be in the format  $e_{\lambda} = \frac{1}{2}, \frac{2}{3}, \frac{2}{4}$ This is converted to an h-dimensional Square matrix. h: 1,2, ..., h, detk/ = 6 is the condition which heeds to be satisfied, and kinverse must exist modulo 8) Kail-ferce Cipher: Key is the raillence depth. It can be any positive Natural number key=2 K= {n: n∈ M & n(>)} 9) Keyed Columnar and Columnar: Key here is a list of numbers of eg Rey = "3, 1, 4, 5,2". key={p:p∈N &p),p≤n}, (an be in ay order