(ask 1)  (B) Hamming Distance: d(	u, u') = (u\u') z つ
un yn HD( }arbidie} 3   sel	$\{adib\}$ ) $\{b\}$
Sag 2 15 da	$    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =    _{1,   _{1}} =     _{1,   _{1}} =     _{1,   _{1}} =     _{1,   _{1}} =       _{1,   _{1}} =                                   $
saifg} 3 1921	6, fg {  = 4
Sorted Neavest : Neighbours:	S4,3,2,1,3}
$k=1: \bar{g}=3.\dot{y}$	8=4 ·X. 8=6 (4+3)=3.5 ·X.
K=3: U= = (3+2+1)=20	$g = \frac{1}{3}(4+3+2) = 3$
$\Rightarrow$ k	= 3 was obtained

(D) Jaccard Similarity: SCMU = TRUXI

Jarbidiel Scidil Saf Safroj Serti	1 2 3 4	JO(Sa,5,2)	Jo (36%)  Jo (36
	Sorted Neight Neight	2,113,47	3 = 3 $(x)$
k=1 -0	g=3 (3+2)	<i>)</i>	8= { (S+4)=3.5 (V)
Task 3)	The algorithm		

i) first we initiative D(0,j)=j and D(i,0)=i

ii) Recursively for D(ij) i {D(i-1)-1) if y=dj'

we do two | It min {D(i-1)} if xit di

inner (oops i=1 to L D(i-1)-1)

j=1tok

iii) for the answer we select the buttom right element

0 1 2 3 4 5 6 7 8 9 i. 1 1 2 3 4 5 6 6 7 8 1 2 2 2 3 4 5 6 7 7 7 t 3 3 3 3 4 5 5 6 7 8
1 2 2 2 3 4 S 6 7 7 7 + 3 3 3 3 4 S 5 6 7 8
1     2     2     2     3     4     5     5     6     7     8       +     3     3     3     3     4     5     5     6     7     8
+ 3 3 3 4 5 5 6
e 4 3 4 3 4 5 6 6 7 0
n 5 4 4 4 4 5 6 7 7 7
+ 6 5 5 5 5 5 6 7 8
1 7 6 6 6 6 6 6 5 6 7
0 9 7 7 7 7 7 7 6 5
1 9 8 8 8 8 8 8 7

The final distance is 5

The distance between "intent" and exe" is 5

The distance between "execut" and "int" is 5

The distance between "execut" and "int" is 5

Task 2) The code given below: