## Assignment-04

## Answer to the austion- 01

B. It's more secure to store hashed passwords because they are compared to y and if y = h(m) then the entered password is assumed to be correct and authenticated. Soleven if someone gets the password file they went be able to authenticate or lagin use the password in anyway.

b. It is much better idea to hash passwords
Stored in a file than to encrypt the password

file because it is much easier to decrypt

the file than to find the password from

h ashed password, If salt is used with Hash

password, it be omes even more difficult

for the took introder ashe has to re-compute

dictionary washes for each user.

C. Salt is randomly choosen value that is only

Nnown to me. So, we choose a passoword and
a random value which is salt in this case
and store the hashed password. It is

used whenever passwords are hashed becaus,
it makes the work of introder harder
in makes the work of introder harder

unite cracking the hashed password

because he has to be compute dictionary

hashes for be each user.

Answer to the Question-2

- a) If an user A is authenticated as user B
  it is called Fraud. The Rate of Fraud in
  biometrics is called Fraud rate.
- b) If an user A cannot authenticate as
  user A, then it is called insult. The
  rate of this insult in biometrics is
  caued insult rate.

the rate where from the and result rate are equal is called equal error rate Italia comparing comparing different biometric system

## Answer to the austion-3

d(Alice, BOB) = d(BE43940598Ef5147, 9<8 92A1425369584)

1 /11/1 40

d (Alice, charlie) = d (885522336699 CCBB)

$$=\frac{16}{16}=1$$

d ( Bob, Charlie) = d 96897A1425369544, 885522336699(CBP)

$$=\frac{16}{16}=1$$

## Answer to the Question-9

technique

		was given
comparison bet	ho \0,110-	thenticationais given
Password	Biometrics	martcart
me nnom.	we are,	. It is something ue have,
2. bassmargs are	2. Some of the biometric system are expensive	2. It is cheap ant maybe compartively.
3. Example of birth, social security no. etc.	facial Recognition	3. Examples  ATM: (art and pin  (redit cars: (art and  signature
4. password cracking is too easy and have man	to crack. By	4. If the possessed thing is lost, hacker can easily take control of accounts