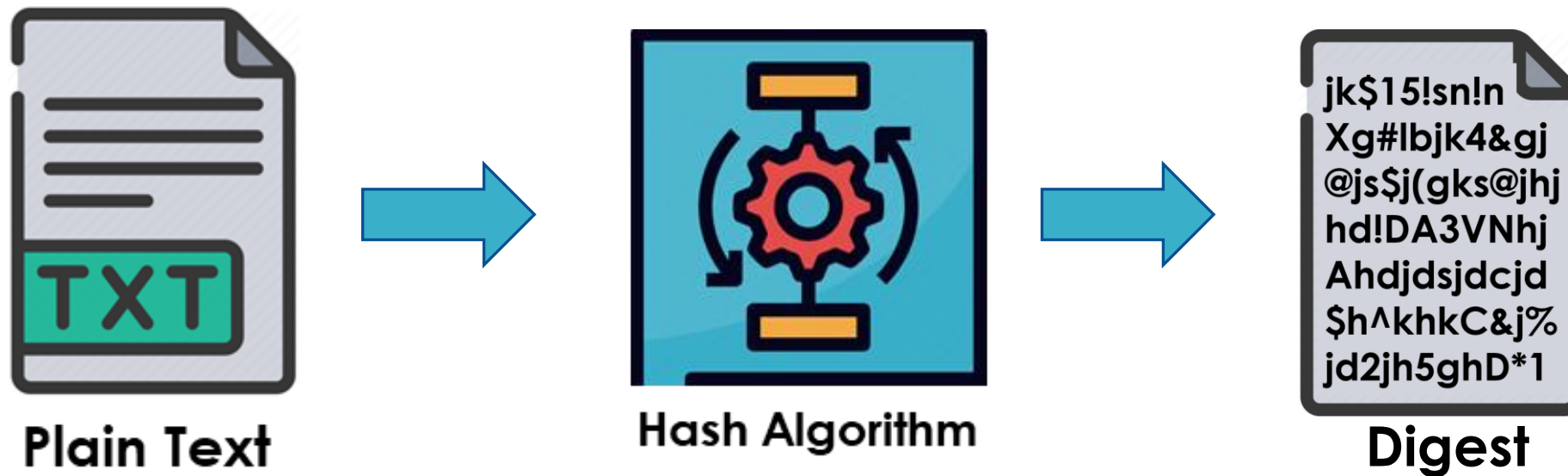


Hash Function



Hash Algorithm

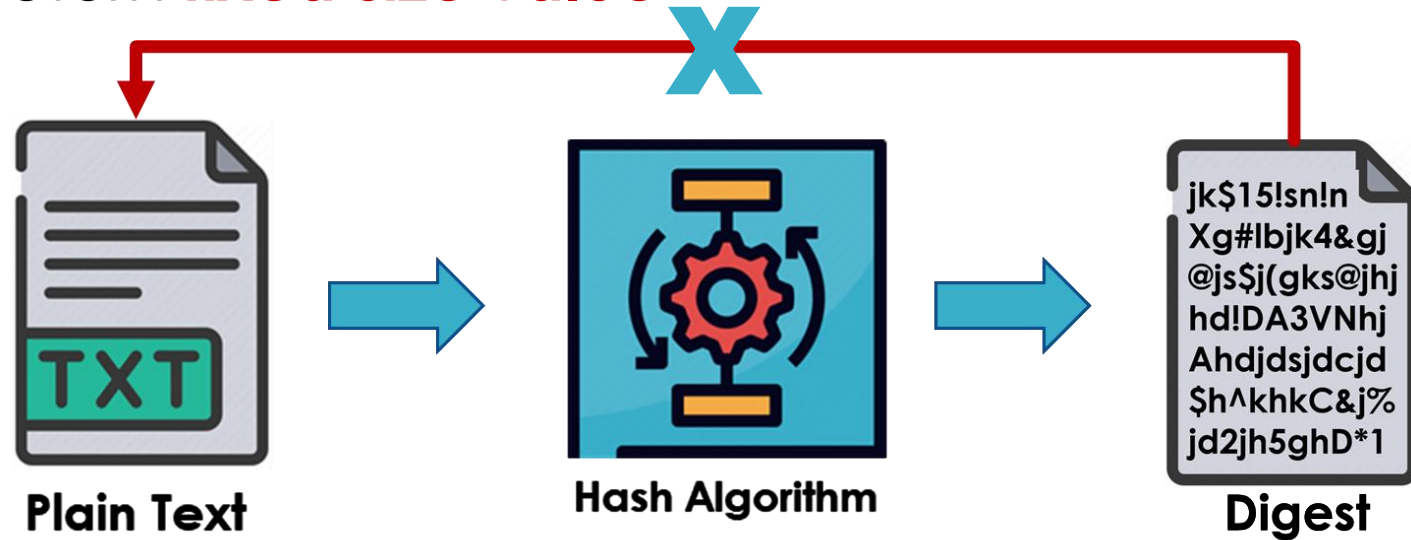
Hashing Algorithm is a hash function that creates **unique** fingerprint of digital data from **arbitrary size** to a **fixed size value**.



It's designed to be a **one-way function**, infeasible to **invert**.
The values returned by a hash function are called **hash values**,
It is used for **data comparing** to check the **integrity**.
hash codes, digests, or simply hashes.

Hash Algorithm Qualities

- 1) Input data from **arbitrary size** to return **fixed size value**
- 2) Output digest has **unique value**
- 3) infeasible to **invert**



Text	Digest	MD5
a	0CC175B9C0F1B6A831C399E269772661	128 bits
abc123	E99A18C428CB38D5F260853678922E03	128 bits
Please subscribe my channel	6A8D7A7F7E2A931811D2B1BA015B3286	128 bits
Complete file 	606FCC5F15300BE196EE775312F8A9019	128 bits

Password Hashing

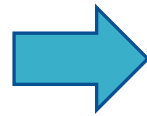
Log in to Facebook

khurram

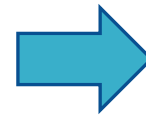
abc123

Log In

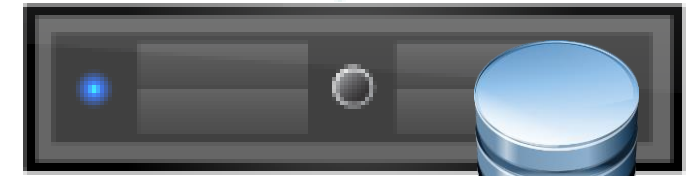
[Forgotten account?](#) · [Sign up for Facebook](#)



Hash Algorithm



User name	Password (Hash)
Khurram	6A8D7A7F7E2A931811D2B1BA015B3286
John	E99A18C428CB38D5F260853678922E03
Ahyan	6A8D7A7F7E2A931811D2B1BA015B3286



Database Server

Thank you