DNA Cloud

Live DNA Computing Model to Secure and Storage of Outsourced Data in Cloud

Owner Login

Username

Password

Owner Registration

Ramesh

9638527415

ramesh@gmail.com

City

Username

Password

Password

Register

Owner Login

ramesh

••••••

[Login]

Register here

Welcome to Data Owner

Name: Ramesh (ramesh)

Mobile No.: 9638527415

Email: ramesh@gmail.com

File Upload

Description

data

Select File

Choose File tut1.docx

[Upload]

Convert to ASCII

```
601126260105628012111610411111 60471056216010511532971601041
510310445108101111810110844160 0310111010111497108451121711 112111111510132112114111103114
7109109105110103321089711010 0103 17971031014632731161153210010
11510510311032112104105108111 1511111121041213210110911210491151051221011151609911100101
2114101971009798105108105116 1116011910511610432116104101321
171151013211110216011510510 31 010510210599971101163210511011
0101110116971161051111110463 26 47112626011262801211161041111
0321051151601001211109710910 59971081081213211612111210110 0
60971101001601039711149897103 1145991111081081019911610110 04
327311632115117112112111114 111 11532109117108116105112108101 601121141111031149710910910 51
01033211297114971001051031091 5443210511099108117100105110 1
3160115116114117991161171141 0 100160401129711411610599117 10 97114108121160112114111199101 1
01171149710841441601119810061 0 991164511111410510111011610 11
016097110100160102117110991 16 0511111097108321121141111031 11
```

Convert to Binary

```
11011011 0001100 1110001 1001011 1101100 0110110 1000011 0011100 0110101 1011011 0101110
0110000 1000111 0101100 1110001 1000111 1101100 1110000 1010011 0011100 1110001 1000111
0011100 0110110 1000011 1001101 1110001 1000011 1011101 0110010 1000111 1101100 0110001
1000011 1011100 1110001 1010111 0111100 0111001 1011111 0011101 0110000 1000111 0001101
0110001 1000011 1011100 1110000 1001111 0011100 0110100 1010011 1011100 1110000 1100011
0011100 0110001 1000111 0011110 0110001 1000011 0011100 1110000 1000111 0101101 0110001
1011011 0001100 1110000 1001111 0011100 0110001 1000111 0011100 0110001 1000011 0011100
1110001 1010011 0011101 1110001 1000011 0001101 0101101 1000111 0011100 0110001 1000111
1111100 1110001 1010011 0011100 1110010 0001000 1111 0011100 1110001 1000111 1011100 1110000
1000111 0111100 0110001 1000111 0101100 1110001 1010011 0011100 1110001 1000111 0001100
1110001 1000111 1001110 1110111 1000111 0001110 1110001 1000011 0011100 1110000 1010111
0011100 1110000 1000111 0001100 1110011 1001011 0011100 0111000 1100111 1111100 1110001
1000011 0011100 0110011 1000111 0011101 1111001 1011111 0011100 0110011 1000111 0001100
1110100 1011011 0111100 0110111 1001111 0011100 1110110 1000111 0011101 1110011 1001011
```

DNA Code Substitution

TCGTAATACT CTAGTCGTA TCGTAATAC AATCCTCGT GTGATAATA TAGTACTAC ACTCGTACT
ATCATACTA TACTACTAC AATCGTAAT ATCTTACTA TCCTCGTAG ACTCGTAAT CTAATCCTA
TACTCCTAT AGTGCTCTT CTCGTAATA TAATCATAC AATCCTACT ATATTACTA TCATCATCC
ACTAATGAT CTAATACTA TACTGATAC AATACTACT ATGATCATC TACTCGTAA ACTAATATT
CTAATACTA TACTAATAC AATACTACT CTCATGCTC TACTAATGA CATCCTACT CTAGTACTA
TCTTACTAC CATACTACT GTACTACTA TACTACTCC ACTAATACT TTAGTACTA TAGTACTAC
CATACTACT CTACTAATA TACTACTCA GCTCTTACT ATGCTACTA TGCTACTAA CCTACTACT
ATACTAATA TATTAGTAC AATGATGCT TTACTACTA TACTAATAT ACTACTCTT CTCTTACTA
TATTACTAA ACTCATCGT TTAGTCTTA TACTACTCG ACTACTCCT TTAGTACTA TAATACTAA
ACTACTACT CTACTAATC TACTAATAT ACTACTAAT TTAGTACTA TAGTACTAA CATACTAAT
CTACTAATG TACTACTAC ACTACTCCT CTACTACTA TACTAGTAC AATCATACT GTACTATTA
TACTAATAC ACTAATGCT CTACTAGTA TAATCATGC CTTACTACT CTACTAATC TACTAGTAG
ACTAATACT CTACTCCTA TCGTAATGC GCTACTACT CTACTAATA TACTAATAC ATTAGTACT
CTCATACTA TACTGCTCT ACTAATAAT CTCTTGCTG TACTAATCC ACTAATGAT CTAATCCTA

Data Owner

ABE Encryption

Public Key

| ....   ⊚ |

[Upload]

DNA Cloud

DNA Cloud has been developed for the sole-purpose of generating a user-friendly, interactive environment for users to envisage their DNA

ABE Encryption

Public Key

[   ]

[Upload]

TCTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA
GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GTTCAAT CTCAGTG GCCATCG
GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA
CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG
GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG GTTCAAT
CAGTAGA CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA
GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA
GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA
CAGTAGA CTCAGTG GCCATCG CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA
GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA
GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA
CAGTAGA CTCAGTG GCCATCG CAGTAGA CTCAGTG GCCATCG CTCAGTG CTCAGTG CAGTAGA
GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GCCATCG CTCAGTG GCCATCG
GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG GCCATCG

DNA Cloud   Home   User   Files   Logout

Fasta File Generation

```
            #C-G#
           #C---G#
          #T-----A#
         #C------G#
        #T-------A#
        #A-----T#
        #T---A#
        #A-T#
       #A---T#
      #C-----G#
     #C------G#
    #A-------T#
   #A------T#
  #C---G#
```

DNA Cloud

DNA Cloud has been developed for the sole-purpose of generating a user-friendly, interactive environment for users to envisage their DNA

Data Owner

Files

S.No	File	Fasta	Date	Action
1	F1tut1.docx (16.591796875 KB)	CF1tut1.fasta (5.97265625 KB)	21-04-2023	Access / Download / Delete

DNA Cloud

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Welcome to Data Owner

Add User

Sivam
Male
05-06-1999
9963257524
sivam@gmail.com
Location
Designation
Username
Password

Add

Users

Add User

S.No	Name	Contact	Location	Designation	Action
1	Sivam (sivam) Gender: Male D.O.B: 1999-06-05	9963257524 sivam@gmail.com	Chennai	Software	Delete

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Files

Select	User
☑	Sivam (sivam)

Share

DNA Cloud

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User Login

sivam

••••

Login

Welcome to User

Name: Sivam (Chennai)

Mobile No.: ramesh

Email: Male

Files

S.No	File	Details	Date	Action
1	F1tut1.docx	data	21-04-2023	Download

Welcome to User

Fasta File

```
        #A-T#
       #T---A#
     #C-----G#
    #C------G#
      #C-G#
  #C---G#
 #C-----G#
   #G------C#
     #C------G#
       #T-----A#
     #G---C#
      #T-A#
   #A---T#
      #C-----G#
     #C------G#
        #C------G#
       #T-----A#
          #T---A#
        #T-A#
       #C-G#
       #C---G#
     #A-T#
    #G---C#
  #T-----A#
  #A------T#
        #G------C#
         #T     A#
```

Submit

User

User

Decryption

Enter the Secret Key

••••••••

ABE Decryption

DNA Cloud

DNA Cloud has been developed for the sole purpose of generating a user-friendly interactive environment for users to envisage their DNA

DNA Recovery Algorithm

Encrypted Data

TCTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GTTCAAT CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG GTTCAAT CAGTAGA CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG CAGTAGA CTCAGTG GCCATCG CTCAGTG CTCAGTG GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG CAGTAGA CTCAGTG GCCATCG CTCAGTG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA GTTCAAT CTCAGTG CAGTAGA GCCATCG CTCAGTG GTTCAAT CTCAGTG CAGTAGA CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA GCCATCG CTCAGTG GCCATCG GCCATCG CTCAGTG CAGTAGA CTCAGTG CTCAGTG CAGTAGA GTTCAAT CTCAGTG GTTCAAT GCCATCG CTCAGTG GCCATCG CTCAGTG CTCAGTG CAGTAGA GCCATCG CTCAGTG GCCATCG GTTCAAT CTCAGTG CAGTAGA CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG GCCATCG CAGTAGA CTCAGTG CAGTAGA GCCATCG CTCAGTG CAGTAGA CAGTAGA CTCAGTG

User

DNA Code

TCGTAATACT CTAGTCGTA TCGTAATAC AATCCTCGT GTGATAATA TAGTACTAC ACTCGTACT ATCATACTA TACTACTAC AATCGTAAT ATCTTACTA TCCTCGTAG ACTCGTAAT CTAATCCTA TACTCCTAT AGTGCTCTT CTCGTAATA TAATCATAC AATCCTACT ATATTACTA TCATCATCC ACTAATGAT CTAATACTA TACTGATAC AATACTACT ATGATCATC TACTCGTAA ACTAATATT CTAATACTA TACTAATAC AATACTACT CTCATGCTC TACTAATGA CATCCTACT CTAGTACTA TCTTACTAC CATACTACT GTACTACTA TACTACTCC ACTAATACT TTAGTACTA TAGTACTAC CATACTACT CTACTAATA TACTACTCA GCTCTTACT ATGCTACTA TGCTACTAA CCTACTACT ATACTAATA TATTAGTAC AATGATGCT TTACTACTA TACTAATAT ACTACTCTT CTCTTACTA TATTACTAA ACTCATCGT TTAGTCTTA TACTACTCG ACTACTCCT TTAGTACTA TAATACTAA ACTACTACT CTACTAATC TACTAATAT ACTACTAAT TTAGTACTA TAGTACTAA CATACTAAT CTACTAATG TACTACTAC ACTACTCCT CTACTACTA TACTAGTAC AATCATACT GTACTATTA TACTAATAC ACTAATGCT CTACTAGTA TAATCATGC CTTACTACT CTACTAATC TACTAGTAG ACTAATACT CTACTCCTA TCGTAATGC GCTACTACT CTACTAATA TACTAATAC ATTAGTACT CTCATACTA TACTGCTCT ACTAATAAT CTCTTGCTG TACTAATCC ACTAATGAT CTAATCCTA TACTCGTAC AGTACTACT GTAATACTA TGCTACTAA CCTACTACT GTACTAATC TATTAGTAC ACTCGTACT ATCATACTA TACTATTAG ACTACTCTT CTACTCCTA TAATACTAT AGTACTACT CTACTAATA TACTCGTAA ACTACTCCT CTAATCCTA TAATTAC ACTAATACT ATCCTACTA TAGTACTAA CCTGCTGCT CTCTTACTA TAATACTAC CGTATTAGT CTAATCCTA TACTAATAC AATAATACT ATACTACTA TAATACTAC CGTGCTCTT CTACTCGTA TAATCCTAC ACTACTACT CTAATCATC TATTAGTCG AATCATCTT CTACTAGTC TAGTCGTAA ACTACTAGT GTAGTGATA TACTAGTAC ACTACTCGT CTAATCATA TACTACTAC ACTAATATT GTACTAATC TACTACTCC ACTCGTAAT CTAATAATA TAGTACTAC ACTAATGCT TTACTAATG TACTAATCC GCTGCTGCT
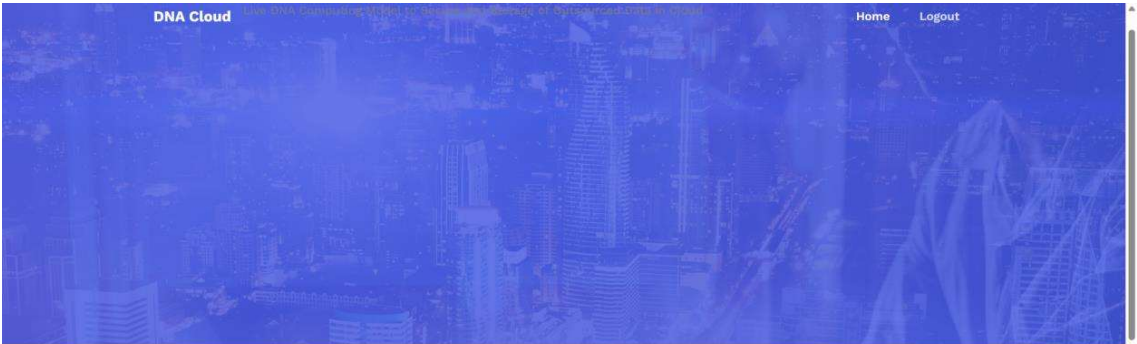
User

Binary

11011011 0001100 1110001 1001011 1101100 0110110 1000011 0011100 0110101 1011011 0101110 0110000 1000111 0101100 1110001 1000111 1101100
1110000 1010011 0011100 1110001 1000111 0011100 0110110 1000011 1001101 1110001 1000011 1011101 0110010 1000111 1101100 0110001 1000011
1011100 1110001 1010111 0111100 0111001 1011111 0011101 0110000 1000111 0001101 0110001 1000011 1011100 1110000 1001111 0011100 0110100
1010011 1011100 1110000 1100011 0011100 0110001 1000111 0011110 0110001 1000011 0011100 1110000 1100011 1001101 0110001 1011011 0001100
1110000 1001111 0011100 0110001 1000111 0011100 0110001 1000011 0011100 0111011 1110001 1000011 1000011 0110101 1000111
0011100 0110001 1000111 1111100 1110001 1010011 0011100 1110010 1000111 0011100 1110001 1000111 1011100 1110000 1000111 0111100 0110001
1000111 0101100 1110001 1010011 0011100 1110001 1000111 0001100 1110001 1000111 1001110 1110111 1000111 0001110 1110001 1000011 0011100
1110000 1010111 0011100 1110000 1000111 0001100 1110011 1001011 0011100 0111000 1100111 1111100 1110001 1000011 0011100 0110011 1000111
0011101 1111001 1011111 0011100 0011100 1000111 0001100 1011011 0111100 1011011 1000111 1110110 1000111 1001111 0011101 1001011 1001011
0011100 0110000 1000111 0001100 1110001 1000111 1011100 1110000 1010111 0011100 0110011 1000111 0011100 0110011 1001011 0011100 1110010
1000111 0001101 0110001 1000011 1011100 1110000 1000111 0011100 1110001 1000111 0011101 1110001 1000111 0011100 1110001 1001011 0011100
0110100 1000111 0101100 1110011 1001011 0011100 0110001 1000111 0001110 1110001 1000111 0101100 1110000 1010011 1110001 1000111
1011100 1110000 1010011 0011100 0110010 1000111 0001100 1110001 1000111 1011100 1110110 1000011 0011110 1110001 1000111 0011100 1110000
1000011 0011100 0110001 1001111 0101100 1110001 1010011 0011100 0110001 1100111 1111100 1110000 1000011 0011101 1111001 1100011 0011100

ASCII Value

6011262601056280121116104111111 6047105621601051153297160104115 10310445108101118101108441160 0310111010111497108451121171111
1121111510132112114111103114 7109109105110103321089711010311 17971031014632731161153210010 115105103110321121041051081111
15111112104121321011091121049 11510512210111516099111100101 2114101971009798105108105161 11601191051161043211610410132
17115101321111021601151051031 01051021059997110116321051101 01011101169711610511111046326 4711262601126280121116104111111
03210511516010121109710910 99710810812132116121112101100 60971101001601039711498971031 1459911110810810199116101100
32731163211511711212111111411 1153210911710811610512108101 6011211411110311497109109105 01033211297114971001051031091
5443210511099108117100105110 3160115116114117991161171141 0 1001604011297114116105991171 09711410812116011211411119901 1
01171149710841441601119810610 99116451111141051011101161011 0160971101001601021171109911 6051111109710832112114111103 11
97109109105110103463273116321 51153211102116101110321001011 15991141059810110032971153297 23811311711116598971161161 0
114105101115321051109910811171 010110038113117111111659321089 110103117971031013210011710131 1611132105116115329911109 11
114101104101110115105118101161 151169711010097114100321081 0 9811497114121463260471126260 262711171051001113211897110 32
2111111511171109160981011039710321191111141071105110103321 110328012111610411110321051 13211610410132108971161013249 5
56481153297115329732115117999 10111511511111432116111321161 4101160656667321121141111031 1 97109109105110103321089711010
117971031011609711010032102101 1141115116321141011081019711511100321051116321051103324957574 32971153280121116104111110160

User

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