```
File - D:\Project\CryptocurrencyPublicLedger.py
 1 #source code for crypto management
 2 print("¥t-----")
 3 print("¥t------Welcome to Cryptocurrency ledger-----")
 4 print("¥t-----")
 5 #modules
 6 import mysql.connector
 7 import random
 8 import datetime
 9 from tabulate import tabulate
10 #connector
11 CC=mysql.connector.connect(host="localhost",user="root",passwd="root")
12 C=CC.cursor()
13 #C is mycursor CC is connect = my database
14 #creating table
15 C.execute("create database if not exists Cryptocurrency")
16 C.execute("use Cryptocurrency")
17 C.execute("create table if not exists Login(USID int not null, password varchar(25) not null)")
18 C.execute("create table if not exists User(USID int not null, Name varchar(25) not null, Address varchar(25) not null,
    Numberoftokens int, balance int)")
19 C.execute("create table if not exists Ledger(Date date, TransactionNumber int not null, SendersAddress varchar(25) not null,
    ReciversAddress varchar(25) not null, Numberoftokens int, SendersBalance int not null, ReciversBalance int not null)")
20 C.execute("create table if not exists assign(USID int not null, Address varchar(25))")
21 #Addind new things to table
22 C=CC.cursor(buffered=True)
23 CC.commit()
25 C.execute("select * from login")
26 for i in C:
27
    i=1
28 if j==0:
     C.execute("insert into login values('0001','password')")
30
     CC.commit()
31 k=0
32 C.execute("select * from assign")
33 for i in C:
34
    k=1
35 if k==0:
     C.execute("insert into assign values('0001','amk182makik')")
36
37
     CC.commit()
38 I=0
39 C.execute("select * from user")
40 for i in C:
41
    l≡1
42 if I==0:
     C. execute ("insert into user values ('0001', 'test', 'amk182 makik', '0', '0')")\\
43
44
     CC.commit()
45 m=0
46 C.execute("select * from ledger")
47 for i in C:
48
     m=1
49 if m==0:
50
     tday= datetime.date.today()
     C. execute ("insert into ledger values (""+str(tday)+"',00001,'amk182 makik','amk182 makik','0','0','0')") \\
51
52
     CC.commit()
53 #Interface
54 while True:
     print("¥t-----")
55
     print("¥t-----")
56
     print("¥t-----")
57
     print("¥t-----")
58
     print("¥t-----")
59
60
     ch=int(input())
```

61

if ch ==1:

```
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     print("¥t-----")
 62
     print("¥t-----")
 63
     print("¥t-----")
 64
     name=input("¥t-----")
 65
     print("¥t-----")
 66
     pasd=input("¥t------Create your password-----")
 67
     print("¥t-----")
 68
 69
     C.execute("select * from assign")
 70
     for i in C:
 71
       (nid,adr)=i
 72
       I=[]
 73
       I.append(adr)
 74
     nid+=1
     rl=[random.randint(65,122) for _ in range(10)]
 75
 76
     rsl=list(map(chr,rl))
 77
     rs=".join(rsl)
     if rs in I:
 78
       rl=[random.randint(65,122) for _ in range(10)]
 79
 80
       rsl{=}list(map(chr,rl))
 81
       rs=".join(rsl)
 82
     else:
 83
       pass
 84
 85
     nt=0
     bal=0
 86
     print("¥t-----".nid)
 87
     print("¥t-----")
 88
     print("¥t-----,rs)
 89
 90
     C=CC.cursor(buffered=True)
     C.execute("insert into login values(""+str(nid)+"",""+str(pasd)+"")")
 91
 92
     CC.commit()
     C.execute("insert into assign values(""+str(nid)+"",""+str(rs)+"")")
 93
 94
     CC.commit()
     \textbf{C.execute}(\texttt{"insert into user values}(\texttt{""+str(nid)+"',""+name+"',""+str(rs)+"',""+str(nt)+"',""+str(bal)+"')"))) \\
 95
 96
     CC.commit()
     print("¥t-----")
 97
     print("\t-----")
 98
     print("¥t-----")
 99
100
    if (ch == 2):
     print("¥t-----")
101
     print("¥t-----")
102
     print("¥t-----")
103
     us=int(input("Enter USID"))
104
     print("¥t-----")
105
     print("¥t------Enter the password-----")
106
     print("\t-----")
107
108
     pasd=input("Enter Password")
     C.execute("select * from login")
109
110
     for i in C:
111
       ad,pas=i
       if us==ad and pasd==pas :
112
        while True:
113
         print("¥t-----")
114
         print("\t-----")
115
         print("¥t-----")
116
         print("¥t-----")
117
         print("¥t------")
118
         print("¥t-----")
119
         print("¥t-----")
120
         print("¥t-----")
121
         print("¥t-----")
122
         print("¥t-----")
123
         print("¥t-----")
124
```

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                                         print("¥t-----
 125
 126
                                         print("\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\tinitetet{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\tint{\text{\texit{\text{\texit{\text{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi}\
                                         print("¥t-----")
 127
                                         print("¥t-----")
 128
 129
                                         ch=int(input())
 130
                                         if ch == 5:
 131
                                              C=CC.cursor(buffered=True)
 132
                                              C.execute("select balance from user WHERE USID = ""+str(us)+"""")
 133
                                              for i in C:
 134
                                                   (bale,)=i
 135
                                              nt=int(input("-----"))
 136
                                              bale=nt+bale
                                              C.execute("update user set Numberoftokens = "'+str(bale)+"', balance = "'+str(bale)+"' WHERE USID = "'+str
 137
 138
                                              CC.commit()
 139
                                              print("Balance - ",bale)
                                              print("Yt-----")
 140
                                              print("Yt------deposited-----")
 141
                                              print("¥t-----")
 142
                                         if ch == 6:
 143
                                              C{=}CC.cursor(buffered{=}True)
 144
 145
                                              recadd=input("Enter the Address to send tokens")
                                              {\tt nots=int(input("Enter\ the\ number\ of\ tokens\ to\ be\ transacted!"))}
 146
 147
                                              C.execute("select TransactionNumber from ledger ")
                                              for i in C:
 148
 149
                                                   (txno,)=i
 150
                                              txno+=1
 151
                                              CC.commit()
                                              C.execute("select Name, Address, Numberoftokens, balance from user WHERE USID = ""+str(us)+"")
 152
 153
                                              sedadd='dewsed'
                                              for i in C:
 154
                                                   (name,sedadd,notis,balis)=i
 155
 156
                                              CC.commit()
                                              C.execute("select USID, Numberoftokens, balance from user WHERE Address = ""+str(recadd)+""")
 157
 158
                                              for i in C:
                                                   (usr,notir,balir)=i
 159
 160
                                              CC.commit()
 161
                                              balis=balis-nots
 162
                                              notis=notis-nots
                                              C.execute("update user set Numberoftokens = ""+str(notis)+"", balance = ""+str(balis)+"" WHERE USID = ""+
 163
              str(us)+"' ")
                                              CC.commit()
 164
 165
                                              notir=notir+nots
 166
                                              balir=balir+nots
 167
                                              daot=datetime.date.today()
                                              C.execute("update user set Numberoftokens = "'+str(notir)+"', balance = "'+str(balir)+"' WHERE USID = "'+
 168
              str(usr)+"' ")
 169
                                              CC.commit()
                                              \textbf{C.execute}("insert\ into\ ledger\ values("+str(daot)+"',"+str(txno)+"',"+sedadd+"',"+recadd+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+"',"+str(nots)+
 170
              +str(balis)+"',""+str(balir)+"')")
 171
                                              \textbf{CC.commit}()
                                              print("¥t-----")
 172
                                              print("¥t-----")
 173
                                              print("¥t-----")
 174
 175
                                        if ch ==7:
 176
                                              C{=}CC.cursor(buffered{=}True)
                                              print("¥t-----")
 177
                                              \textbf{C.execute}("select * from user WHERE \ USID = ""+str(us)+"" \ ")
 178
 179
                                              for i in C:
                                                   I=[]
 180
                                                   i1=list(i)
 181
                                                   i2 \hspace{-0.05cm}=\hspace{-0.05cm} ["USID","Name","Address","Number of tokens","balance"]
 182
 183
                                                   I.append(i2)
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  184
                                                                  I.append(i1)
  185
                                                                  print(tabulate(I))
  186
                                                    if (ch == 8):
  187
                                                           C{=}CC.cursor(buffered{=}True)
  188
                                                            print("¥t-----")
  189
                                                            print("¥t-----")
                                                            print("¥t-----")
  190
  191
                                                           break
  192
                                       elif us==ad and pasd!=pas :
                                              print("¥t-----")
  193
  194
                                              print("¥t-----")
                                              print("Yt-----")
  195
  196
                                       elif \ us! = ad \ and \ pasd = = pas :
                                              print("¥t-----")
  197
                                              print("¥t-----")
  198
                                              print("¥t-----")
  199
  200
                                       else:
  201
                                              pass
  202
                        if (ch == 3):
                                print("¥t-----")
  203
                                print("¥t-----")
  204
                                print("¥t-----")
  205
  206
                               break
  207
                        if (ch == 4):
                                print("\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\text{\text{\text{\text{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tinx{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny
  208
                                print("¥t-----")
  209
                                print("¥t-----")
  210
  211
                               C.execute("select * from Ledger")
  212
                               for i in C:
                                     I=[]
  213
  214
                                      i1=list(i)
                                      i2 = ["Date", "TransactionNumber", "SendersAddress", "ReciversAddress", "Number of tokens", "SendersBalance", "Inchest of the property of th
  215
                  ReciversBalance"]
  216
                                       I.append(i2)
  217
                                      I.append(i1)
  218
                                       print(tabulate(I)) \\
  219
                        if ch == 5 or ch == 6 or ch == 7:
  220
                               break
  221
  222
  223
  224
  225
  226
  227
  228
```