# Password Manager

master\_pwd="nkr7exfkyg"

passw = input('Please provide the master password to start using Password Manager: ')

if passw == master\_pwd:

    print('You\'re in')

else:

    print('Sorry Wrong Password!')

    exit()

#importing the connectors and establishing the connection

import mysql.connector as ms

conn=ms.connect(*host*='localhost',*user*='root',*passwd*='nkr7exfkyg', *database*='mydb1')

if conn.is\_connected():

    print("Connected Sucessfully...")

my\_cursor=conn.cursor()

#hash\_key

hash\_key={'a':'z','b':'y','c':'x','d':'w',

        'e':'v','f':'u','g':'t','h':'s',

        'i':'r','j':'q','k':'p','l':'o',

        'm':'n',

        'n':'m','o':'l','p':'k','q':'j',

        'r':'i','s':'h','t':'g','u':'f',

        'v':'e','w':'d','x':'c','y':'b',

        'z':'a',

        'A':'Z','B':'Y','C':'X','D':'W',

        'E':'V','F':'U','G':'T','H':'S',

        'I':'R','J':'Q','K':'P','L':'O',

        'M':'N',

        'N':'M','O':'L','P':'K','Q':'J',

        'R':'I','S':'H','T':'G','U':'F',

        'V':'E','W':'D','X':'C','Y':'B',

        'Z':'A',

        '!':'\*','@':'&','#':'^','$':'%',

        '%':'$','^':'#','&':'@','\*':'!'}

# hasher

*def* hasher(*password*):

    new\_pass=""

    for i in password:

        new\_pass+=hash\_key[i]

    return new\_pass

# creating all the functions

*def* menu():

    print("-"\*120)

    print(('-'\*33) + 'Menu'+ ('-' \*33))

    print('1. Create new password')

    print('2. Find all sites and apps connected to an email')

    print('3. Find a password for a site or app')

    print('4. Update password for a existing site or app')

    print('5. Delete password for a existing site or app')

    print('Q. Exit')

    print("-"\*120)

    print()

    return input(': ')

*def* create():

    print('Please provide the name of the site or app you want to generate a password for: ')

    app\_name = input()

    print('Please provide a password for this site or app: ')

    plain\_pwd = input()

    passwd = hasher(plain\_pwd)

    user\_email = input('Please provide a user email for this site or app: ')

    username = input('Please provide a username for this site or app (if applicable): ')

    if username == None:

        username = ''

    query = "INSERT INTO pwdmanager (app\_name,email,password,username) VALUES ('{}','{}','{}','{}')".format(app\_name,user\_email,passwd,username)

    my\_cursor.execute(query)

    conn.commit()

    print("Record Inserted...")

*def* find\_accounts():

    print('Please provide the email that you want to find accounts for')

    user\_email = input()

    query = "SELECT \* FROM pwdmanager WHERE email='{}'".format(user\_email,)

    my\_cursor.execute(query)

    my\_data=my\_cursor.fetchall()

    if my\_data!=[]:

        print("+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+")

        print("|","-"\*10,"app\_name","-"\*10,"|","-"\*11,"e-mail","-"\*11,"|","-"\*10,"password","-"\*10,"|","-"\*10,"username","-"\*10,"|")

        for row in my\_data:

            print("|","%30s"%row[0],"|","%30s"%row[1],"|","%30s"%hasher(row[2]),"|","%30s"%row[3],"|")

        print("+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+")

    else:

        print("Wrong data input!")

*def*  find():

    print('Please provide the name of the site or app you want to find the password to')

    app\_name = input()

    query = "SELECT \* FROM pwdmanager WHERE app\_name='{}'".format(app\_name,)

    my\_cursor.execute(query)

    my\_data = my\_cursor.fetchall()

    if my\_data!=[]:

        print("+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+")

        print("|","-"\*10,"app\_name","-"\*10,"|","-"\*11,"e-mail","-"\*11,"|","-"\*10,"password","-"\*10,"|","-"\*10,"username","-"\*10,"|")

        for row in my\_data:

            print("|","%30s"%row[0],"|","%30s"%row[1],"|","%30s"%hasher(row[2]),"|","%30s"%row[3],"|")

        print("+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+-","-"\*28,"-+")

    else:

        print("Wrong app or site name")

*def* update():

    print("Please enter the app/site name which you want to update password for: ")

    app\_name=input()

    print("Please enter the username of ",app\_name," for which you want to upadate your password: ")

    username=input()

    print("Enter new Password: ")

    new\_pass=input()

    hashed\_new\_pwd=hasher(new\_pass)

    query="UPDATE pwdmanager SET password='{}' WHERE app\_name='{}' AND username='{}'".format(hashed\_new\_pwd,app\_name,username)

    my\_cursor.execute(query)

    conn.commit()

    print("Record Updated Sucessfully...")

*def* delete():

    print("Please enter the app/site name which you want to delete password for: ")

    app\_name=input()

    print("Please enter the username of ",app\_name," for which you want to delete your password: ")

    username=input()

    query="DELETE FROM pwdmanager WHERE app\_name='{}' AND username='{}'".format(app\_name,username)

    my\_cursor.execute(query)

    conn.commit()

    print("Record Deleted Sucessfully...")

choice = menu()

while True:

    if choice == '1':

        create()

    elif choice == '2':

        find\_accounts()

    elif choice == '3':

        find()

    elif choice == '4':

        update()

    elif choice == '5':

        delete()

    elif choice == 'Q':

        exit(0)

    choice = menu()