**Election Candidate Data Management System** *KENDRIYA VIDYALAYA MALLESWARAM*



***COMPUTER SCIENCE INVESTIGATORY PROJECT***

**Name:** V.P.S KONDA REDDY

**Class:** XII

**Section:** 'B'

**CBSE Roll No:**

**CERTIFICATE**

This is to certify that **V P S KONDA REDDY** of class **XII-B** has successfully completed her Computer Science project on “**Election Candidate Data Management System**” under the guidance **of Mrs. Neeru Mehandiratta**. This is certified to be the bonafide work of the student in the Computer Science laboratory during the academic year **2020-21.**

Internal Examiner External Examiner

Miss. Neeru Mehandiratta Date:

PGT – Computer Science

K V Malleswaram

Principal

**ACKNOWLEDGEMENT**

I would like to express my sincere gratitude to my teacher, Mrs. Neeru Mehandiratta for providing invaluable guidance, comments and suggestions. I would specially thank her for constantly motivating me and providing me an overview of the project work.

My sincere thanks to our principal, Mrs. H D Bhanumathy for extending every possible support for the completion of the project.

V P S KONDA REDDY,

XII B, KV MALLESWARAM

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**INTRODUCTION**

This project provides the information about "Election Candidate Data Management System". Where it is records about the Candidates who give there nomination in the National and local Elections.

This allows User to see and manage the details of all Candidates who submitted their nomination and elected Candidate and details such as constituency no, Constituency name, Pv.no, the Candidates name, Party, Age, and Education, Contact no, Criminal records.

Details can be added, deleted, or appended based on user requirements. A display of all of the entered information is possible and the selected information as well.

The  advantage of using MySQL is that it can be overwritten. Hence, if you create a new Table under the same name, the previous data in the table gets deleted and the new data created will be added.

**SYSTEM REQUIREMENTS**

**RAM:** 4GB

**Processor:** Intel i3

**Operating System:** MIRCOSOFT WINDOWS 10

**SOFTWARES USED**

**Python:** Version 3.8.1 (32 bit)

**MySQL:** Version 5.1

***FUNCTIONS USED***

* **Builtin Functions**

1. **format()**
2. **fetchone()**
3. **fetchall()**
4. **int()**
5. **input()**
6. **float()**

* **Imported Functions**

1. **connect()**
2. **cursor()**
3. **execute()**
4. **commit()**

* **User Defined Functions**

1. **menu()**
2. **creation()**
3. **adddata()**
4. **updatedata()**
5. **deletedata()**
6. **displaydata()**
7. **searchdata()**

**SOURCE CODE**

def menu():

print("WELCOME TO ELECTION CANDIDATES DATA MANAGEMENT SYSTEM")

ch="y"

while ch=="y":

print("1. CREATION OF TABLE AND DATABASE")

print("2. ADD CANDIDATE'S DETAILS ")

print("3. UPDATE CANDIDATE'S DETAILS ")

print("4. DELETE CANDIDATE'S DETAILS")

print("5. DISPLAY CANDIDATE'S DETAILS ")

print("6. SELECTION CANDIDATE'S DETAILS ")

print("7. EXIT")

choice=int(input("PLEASE ENTER YOUR CHOICE(1-7): "))

if choice==1:

creation()

elif choice==2:

adddata()

elif choice==3:

updatedata()

elif choice==4:

deletedata()

elif choice==5:

displaydata()

elif choice==6:

searchdata()

elif choice==7:

print("THANK YOU FOR USING ELECTION CANDIDATES DATA MANAGEMENT SYSTEM ")

break

else:

print("WRONG CHOICE")

ch=input("Do you want to continue or not(y/n): ")

def creation():

import mysql.connector as ms

mycon=ms.connect(host="localhost", user="root",passwd="konda")

cursor=mycon.cursor()

cursor.execute("create database if not exists Candidates")

cursor.execute("use Candidates")

cursor.execute("create table if not exists ELECTION(CD\_no int(30),CN\_Number int(10),Constituency varchar(20),Pv\_number int(10),Candidates\_Name varchar(50),Party varchar(20),Age int(10),Educa varchar(50),Votes int(30),CR\_no int(10),Email\_id varchar(50),Profession varchar(50),Gen varchar(10))")

mycon.commit()

print("CREATION OF DATABASE AND TABLE DONE SUCESSFULLY")

def adddata():

import mysql.connector as ms

mycon=ms.connect(host="localhost",user="root",passwd="konda",database="Candidates")

cursor=mycon.cursor()

a=int(input("How many records you want to enter: "))

for i in range(a):

cd=int(input( "Enter the Candidate Details Number : "))

cn=int(input( "Enter the Constituency Number : "))

cs=input( "Enter name of the Constituency : ")

pvn=float(input( "Enter the Popular Vote number : "))

cdn=input( "Enter the name of the Candidate : ")

py=input( "Enter the name of the Party : ")

ag=int(input( "Enter the Age of the Candidate : "))

ed=input( "Enter the Qualification of the Candidate : ")

vt=int(input( "Enter the number of Votes secured : "))

cmr=int(input( "Enter the number of Criminal cases on the Candidate : "))

eid=input( "Enter the Email Id of the Candidate : ")

spn=input( "Enter the Self Profession of the Candidate : ")

gnd=input( "Enter the Gender of the Candidate : ")

query="insert into ELECTION values({0},{1},'{2}',{3},'{4}','{5}',{6},'{7}',{8},{9},'{10}','{11}','{12}')".format(cd,cn,cs,pvn,cdn,py,ag,ed,vt,cmr,eid,spn,gnd)

cursor.execute(query)

mycon.commit()

print("RECORDS ADDED SUCESSFULLY")

def updatedata():

import mysql.connector as ms

mycon=ms.connect(host="localhost",user="root",passwd="konda",database="Candidates")

cursor=mycon.cursor()

pv=int(input("Enter the Candidates Details Number: "))

query="select\*from ELECTION where CD\_no={}".format(pv)

cursor.execute(query)

data=cursor.fetchone()

if data!=None:

print("The searched data is: ")

print(data)

ans=input("Do you want to update Candidates Details Number(y/n): ")

if ans=="y":

pop=int(input("Enter the new Candidates Details Number: "))

query="update ELECTION set CD\_no={} where CD\_no={}".format(pop,pv)

cursor.execute(query)

mycon.commit()

print("RECORD UPDATED SUCESSFULLY")

else:

print("NO SUCH RECORD FOUND")

def deletedata():

import mysql.connector as ms

mycon=ms.connect(host="localhost",user="root",passwd="konda",database="Candidates")

cursor=mycon.cursor()

pv=int(input("Enter the Candidates Details Number: "))

query="select\*from ELECTION where CD\_no={}".format(pv)

cursor.execute(query)

data=cursor.fetchone()

if data!=None:

print("The searched data is: ")

print(data)

ans=input("Do you want to delete this record(y/n): ")

if ans=="y":

query="delete from ELECTION where CD\_no={}".format(pv)

cursor.execute(query)

mycon.commit()

print("RECORD DELETED SUCESSFULLY")

else:

print("NO SUCH RECORD FOUND")

def displaydata():

import mysql.connector as ms

mycon=ms.connect(host="localhost",user="root",passwd="konda",database="Candidates")

cursor=mycon.cursor()

cursor.execute("select \* from ELECTION")

for row in cursor:

print(" CANDIDATES DATA ")

print("Candidates Details Number :",row[0])

print("Constituency number :",row[1])

print("Constituency :",row[2])

print("Popular Vote Number :",row[3])

print("Candidate Name :",row[4])

print("Party :",row[5])

print("Age of the Candidate :",row[6])

print("Qualification of the Candidate :",row[7])

print("Number of Votes secured :",row[8])

print("Number of Criminal Records :",row[9])

print("Email Id of the Candidate :",row[10])

print("Self Profession of the Candidate :",row[11])

print("Gender of the Candidate :",row[12])

print("\n")

def searchdata():

import mysql.connector as ms

mycon = ms.connect(host="localhost",user="root",password="konda",database="Candidates")

cursor = mycon.cursor()

cursor.execute("SELECT \* FROM ELECTION where Gen='F' order by CD\_no ASC ")

result = cursor.fetchall()

ans=input("Do you want to Search(y/n): ")

if result!=None:

print("The searched data is: ")

if ans=="y":

print(result)

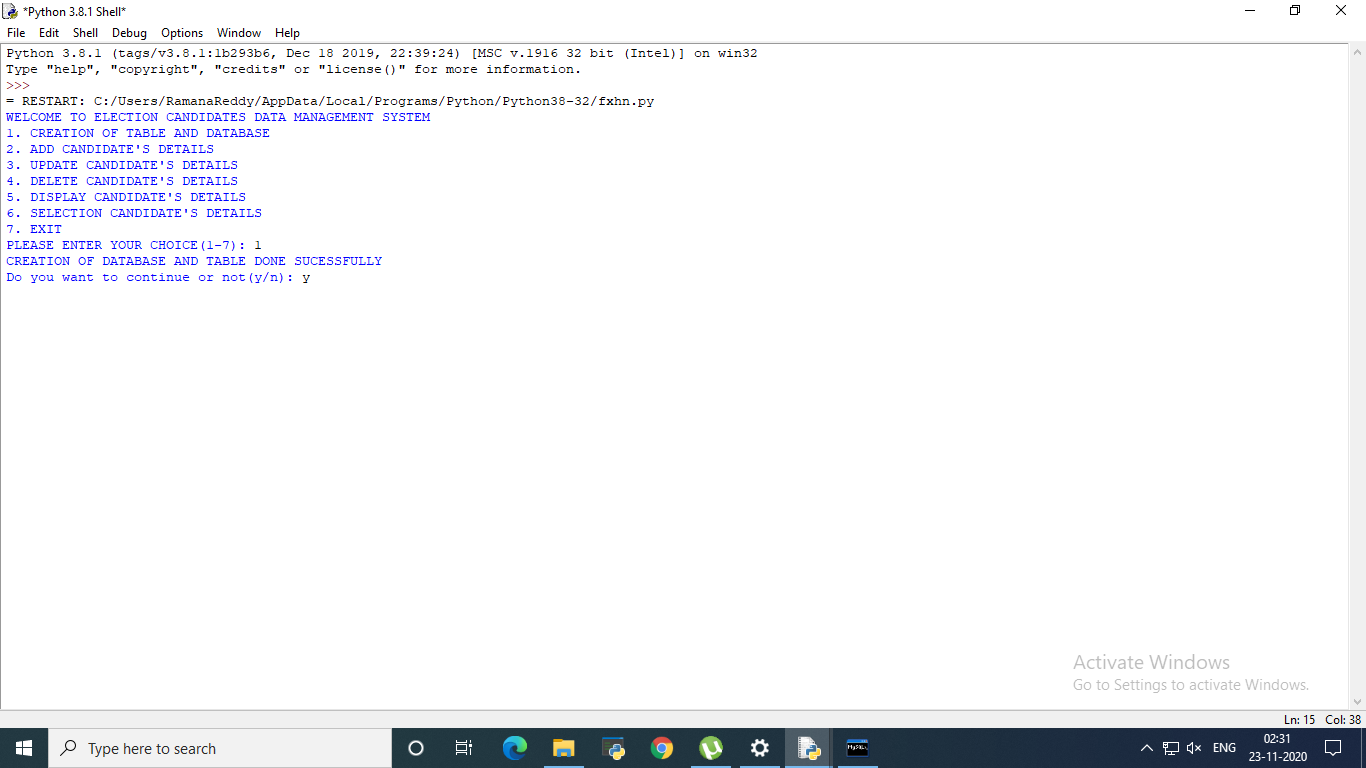
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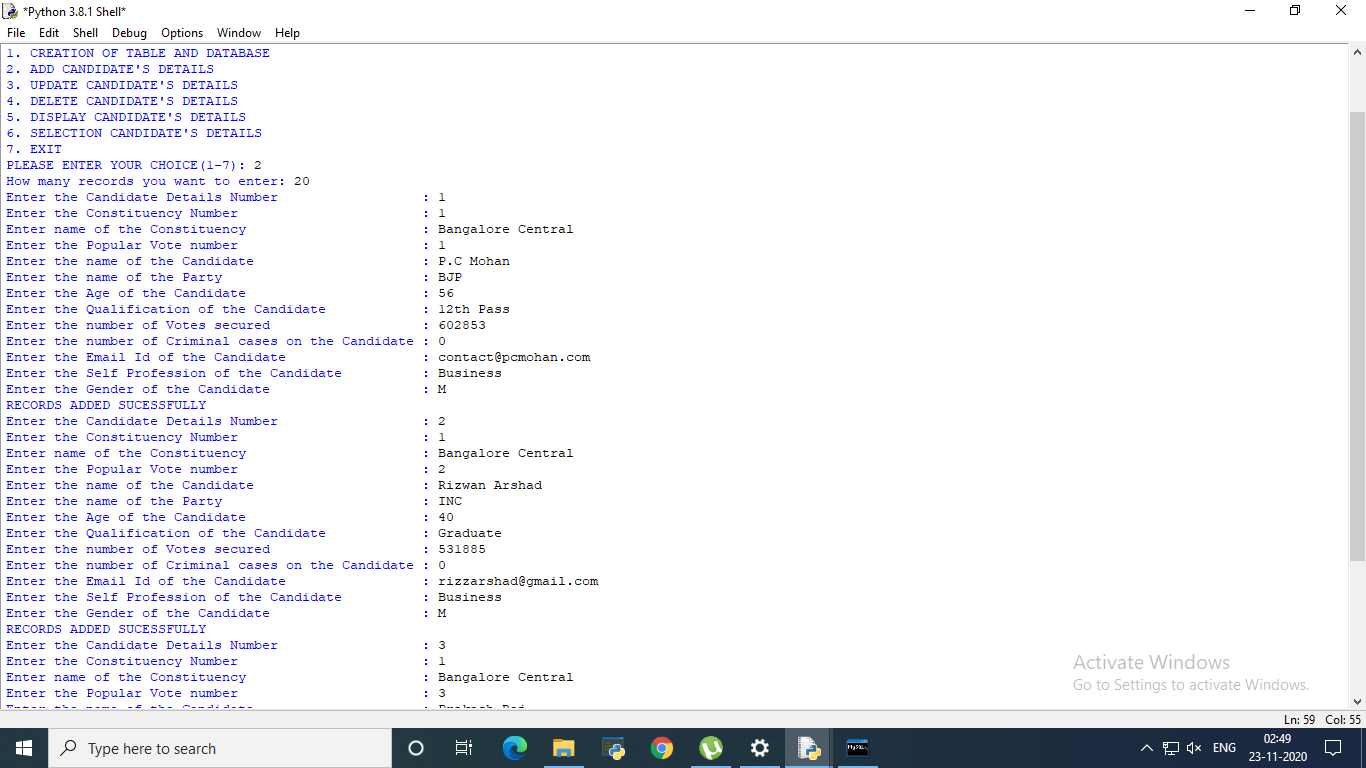
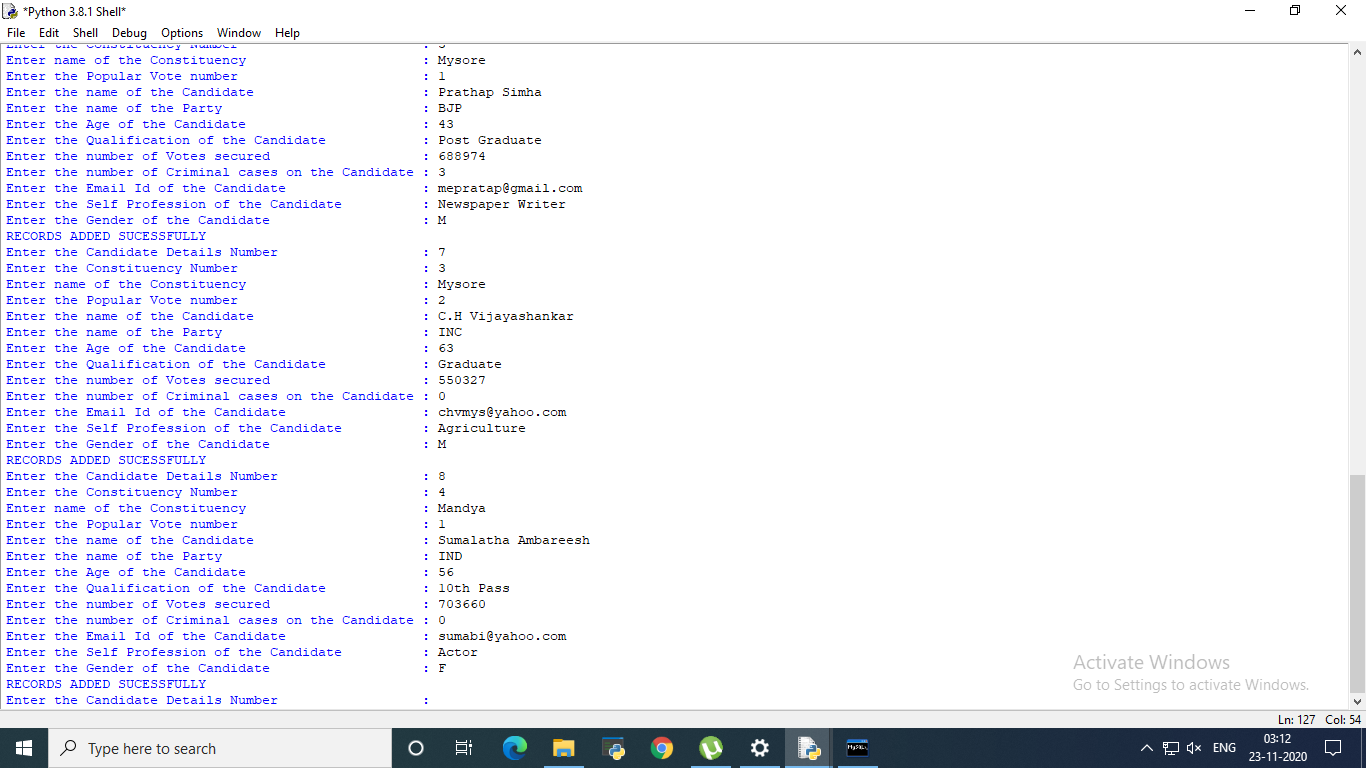
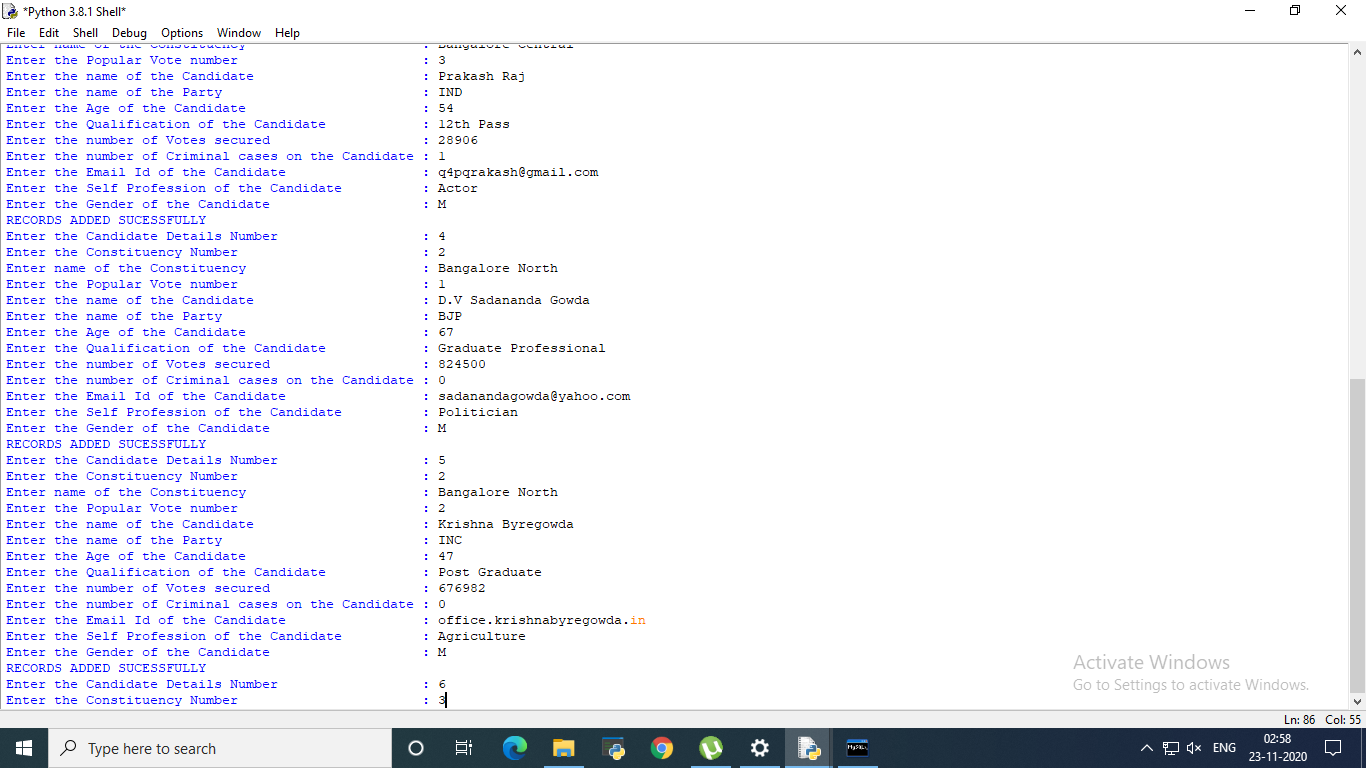
print("THANK YOU FOR TRYING SEARCHDATA")

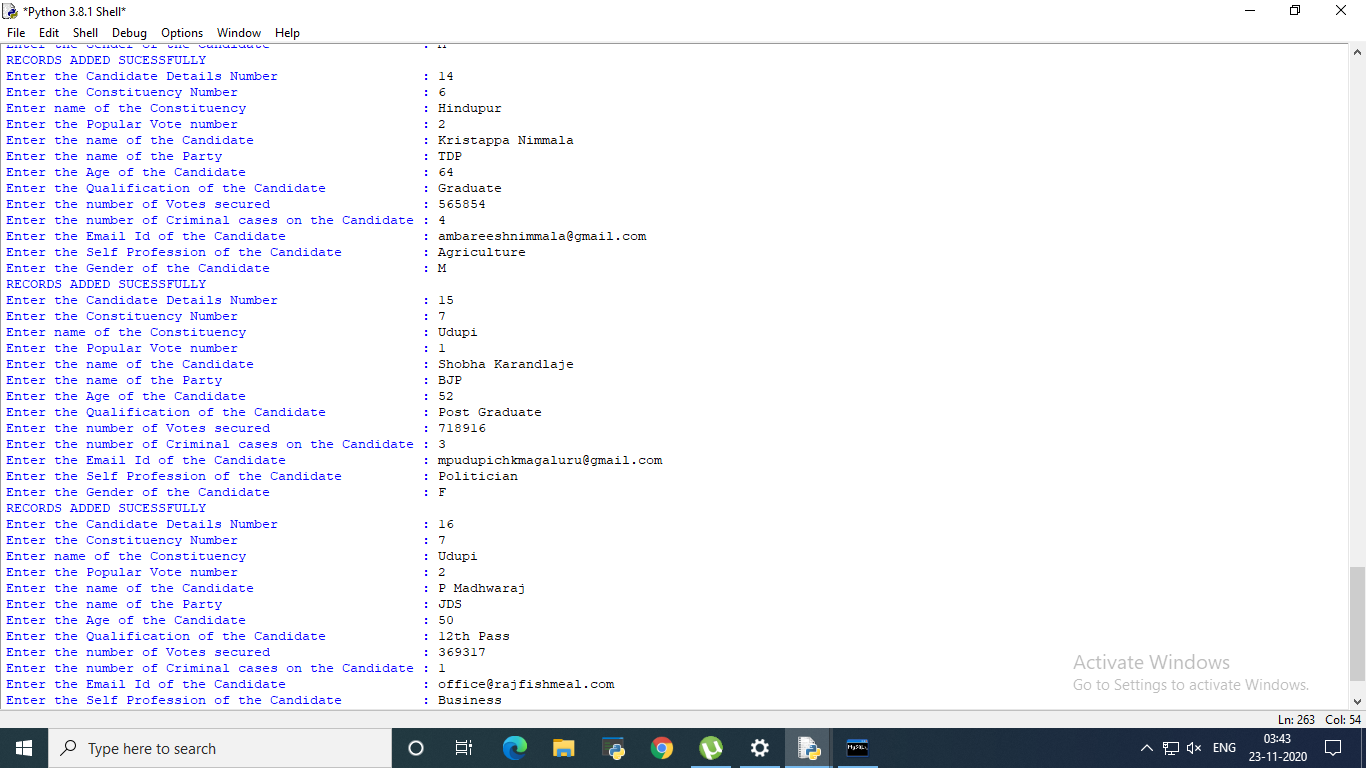
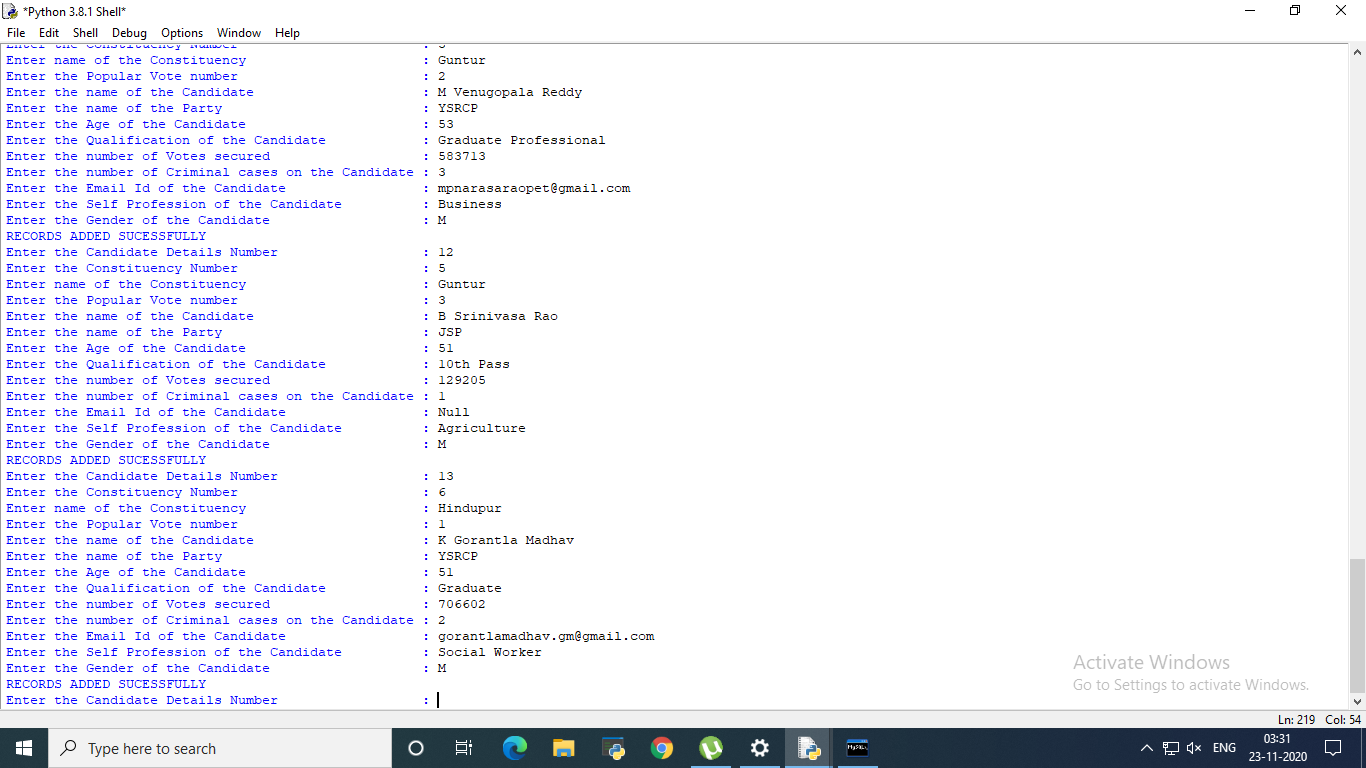
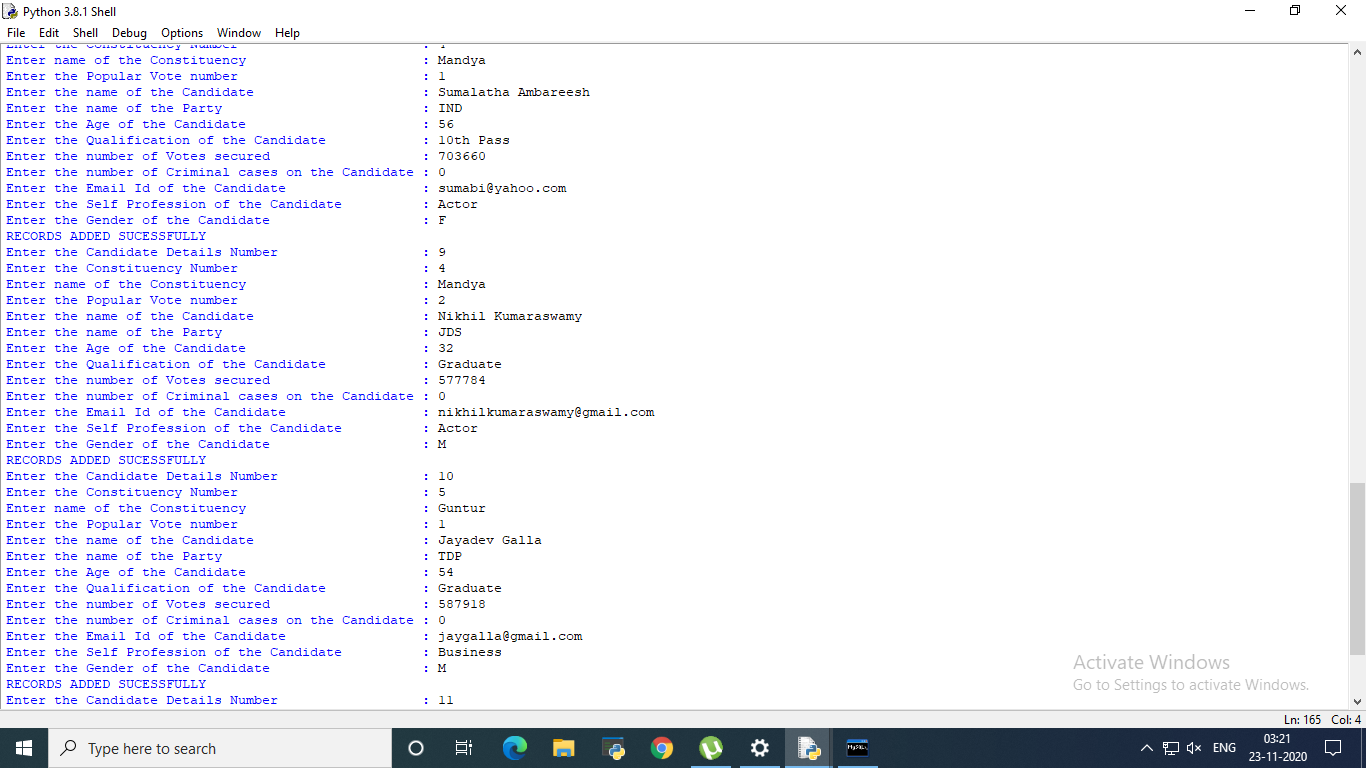
menu()

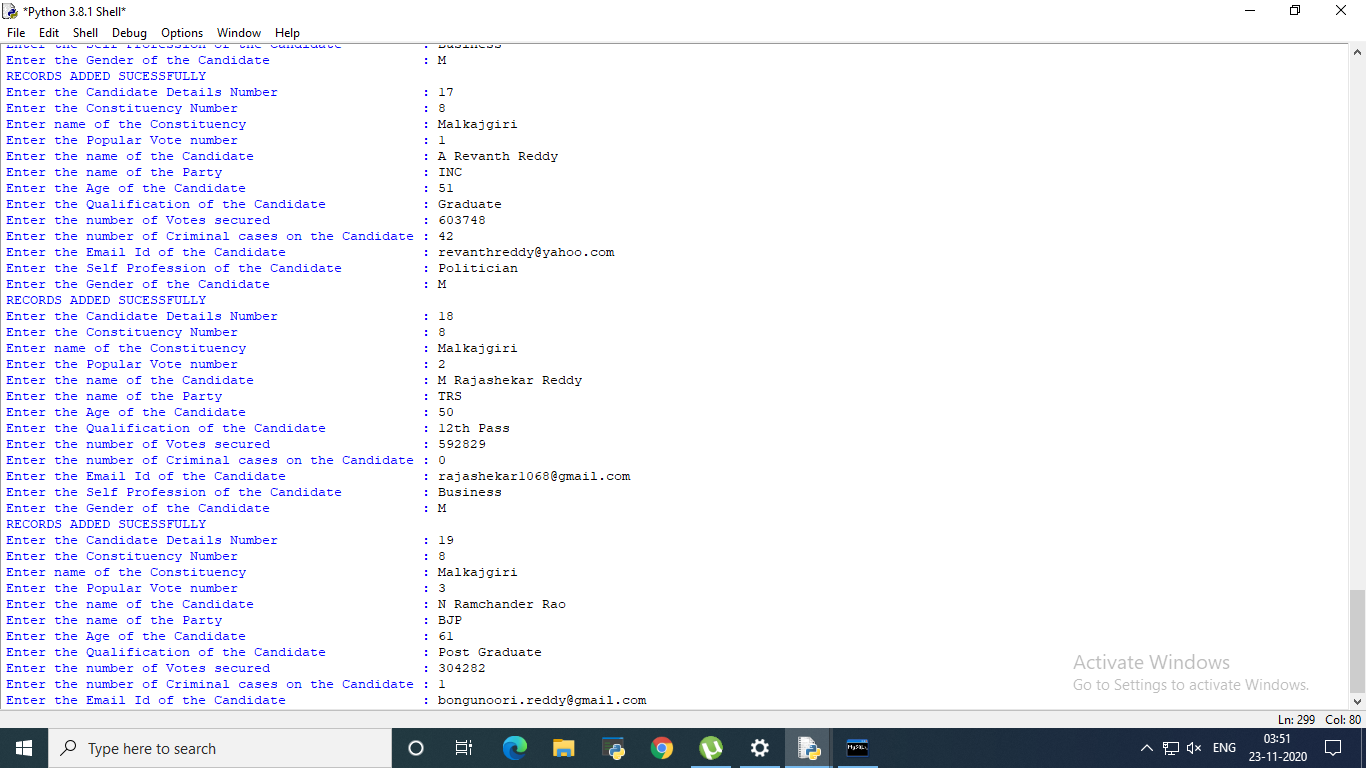
***INPUT/ OUTPUT SCREENSHOTS***

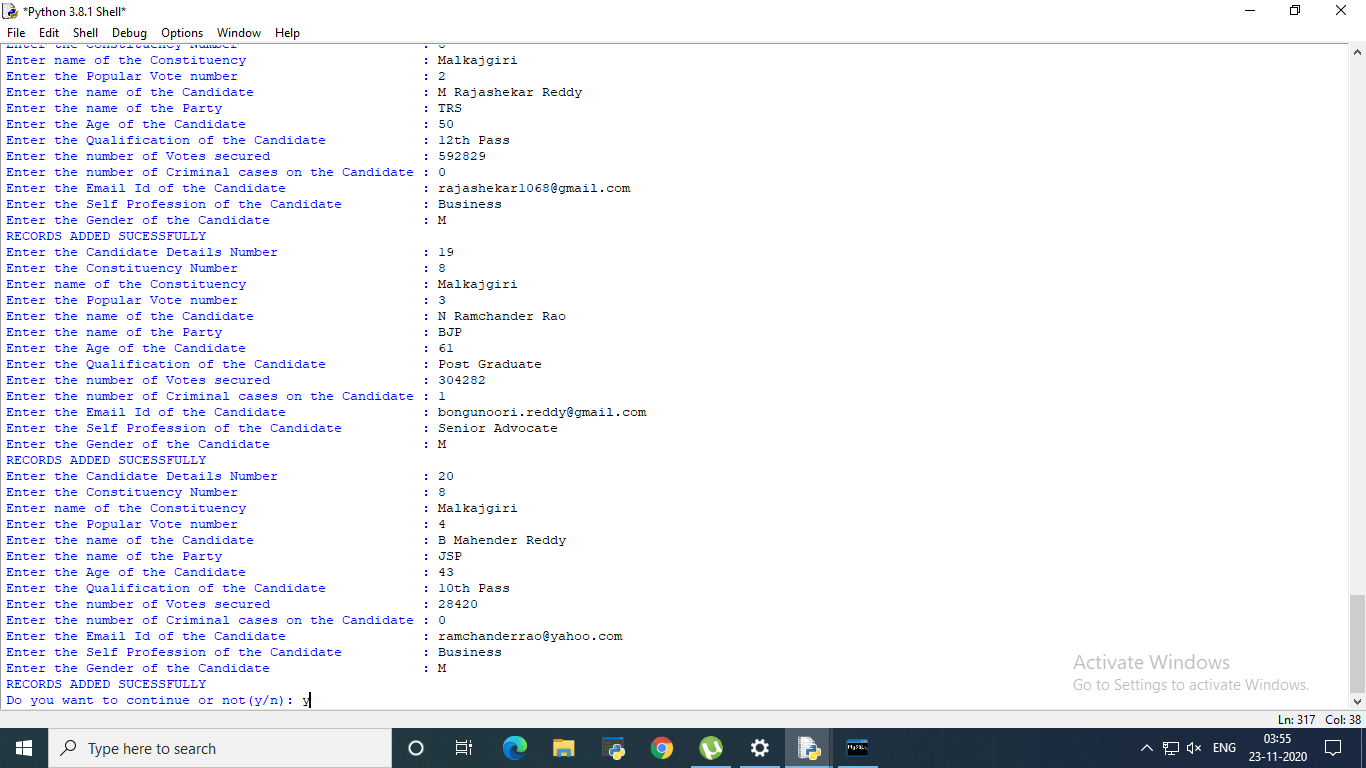
***1. CREATION OF TABLE AND DATABASE***



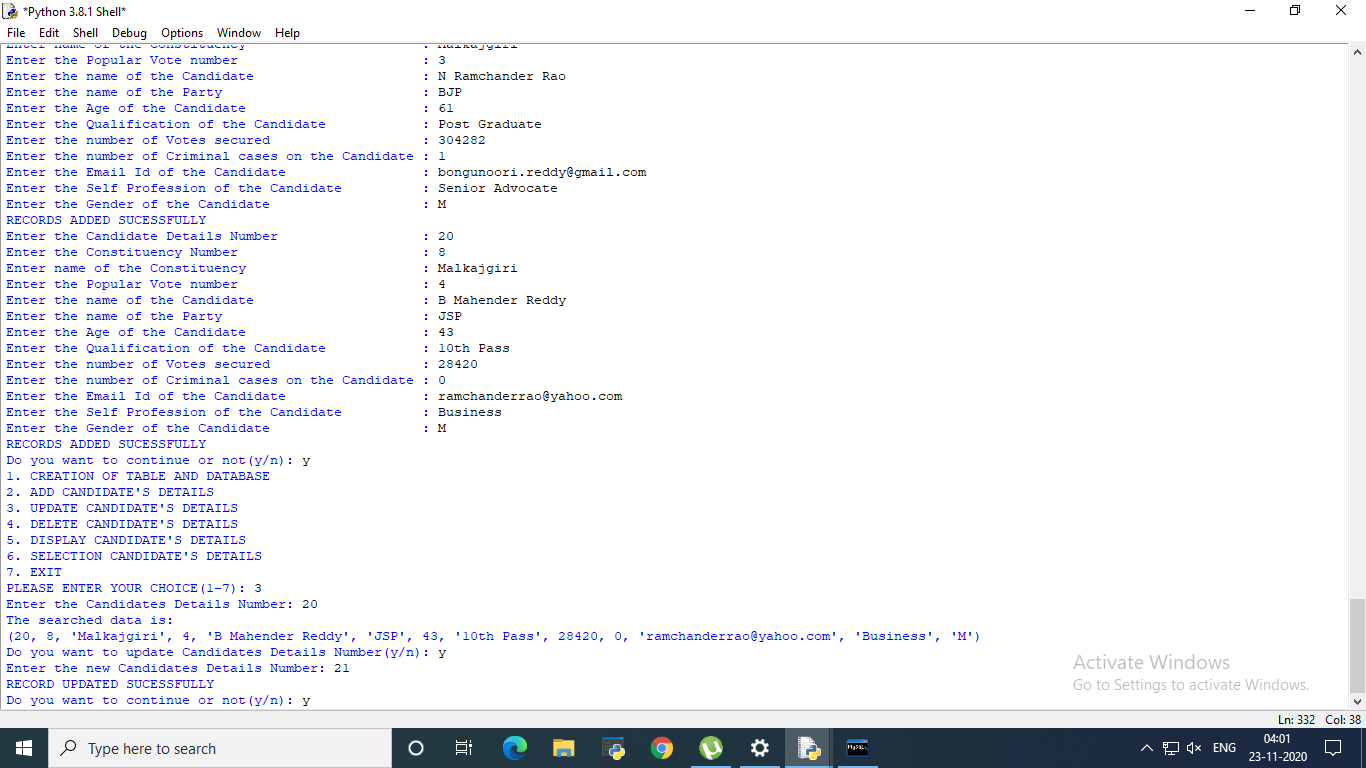
***2. ADD CANDIDATE'S DETAILS***



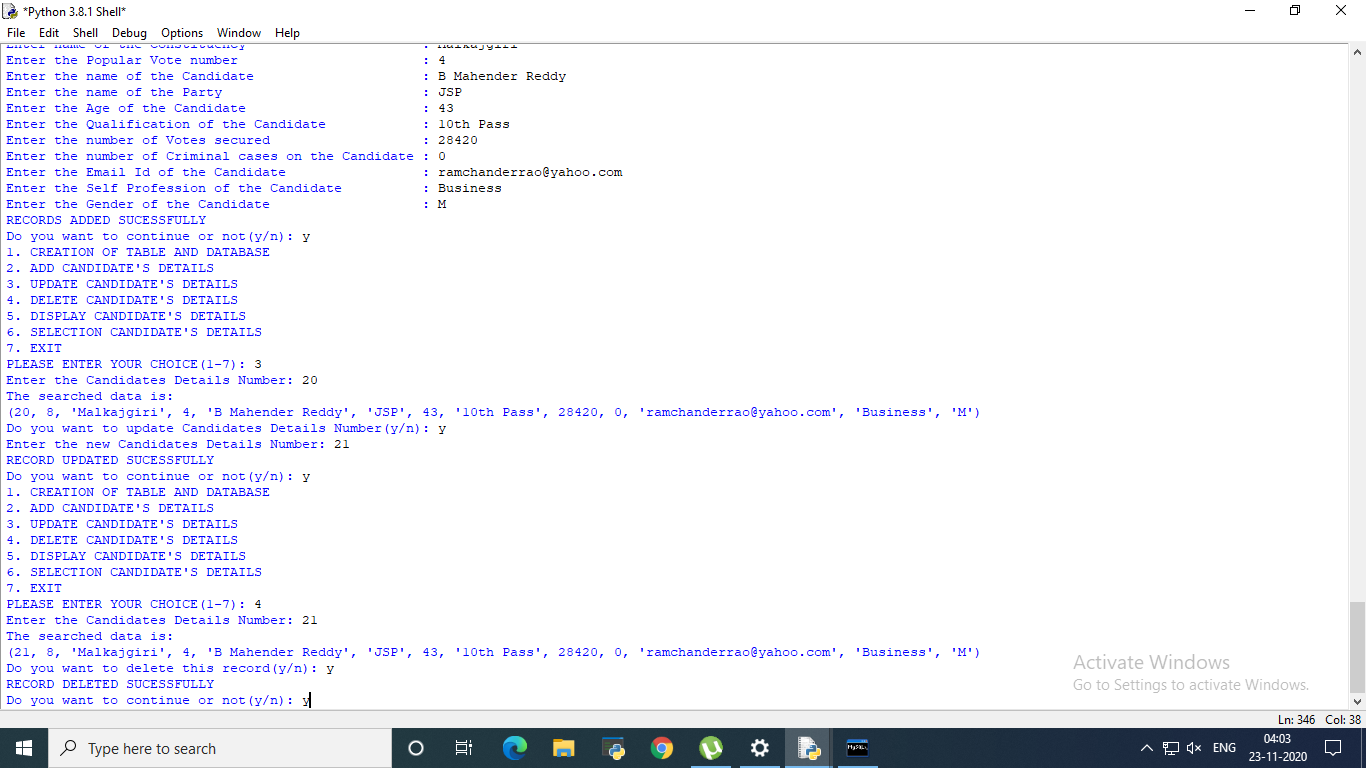




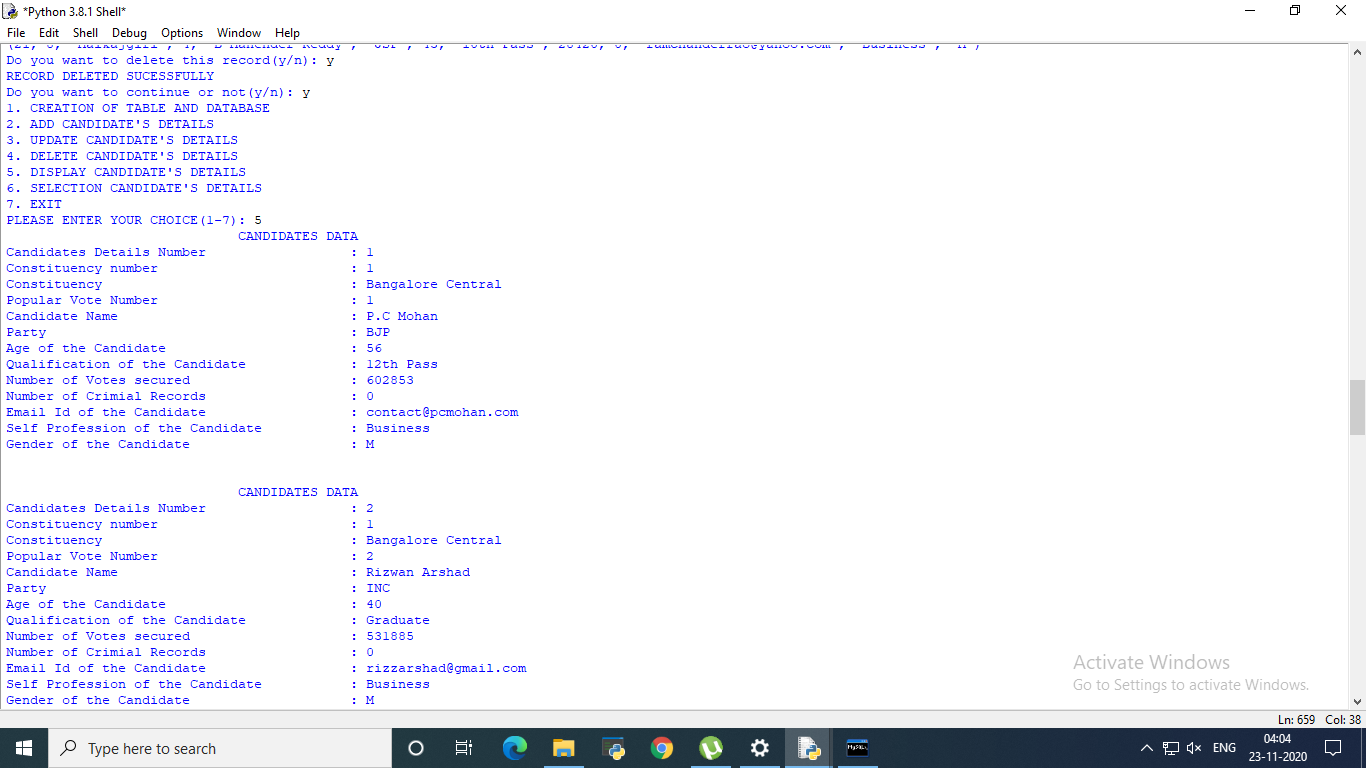
***3. UPDATE CANDIDATE'S DETAILS***

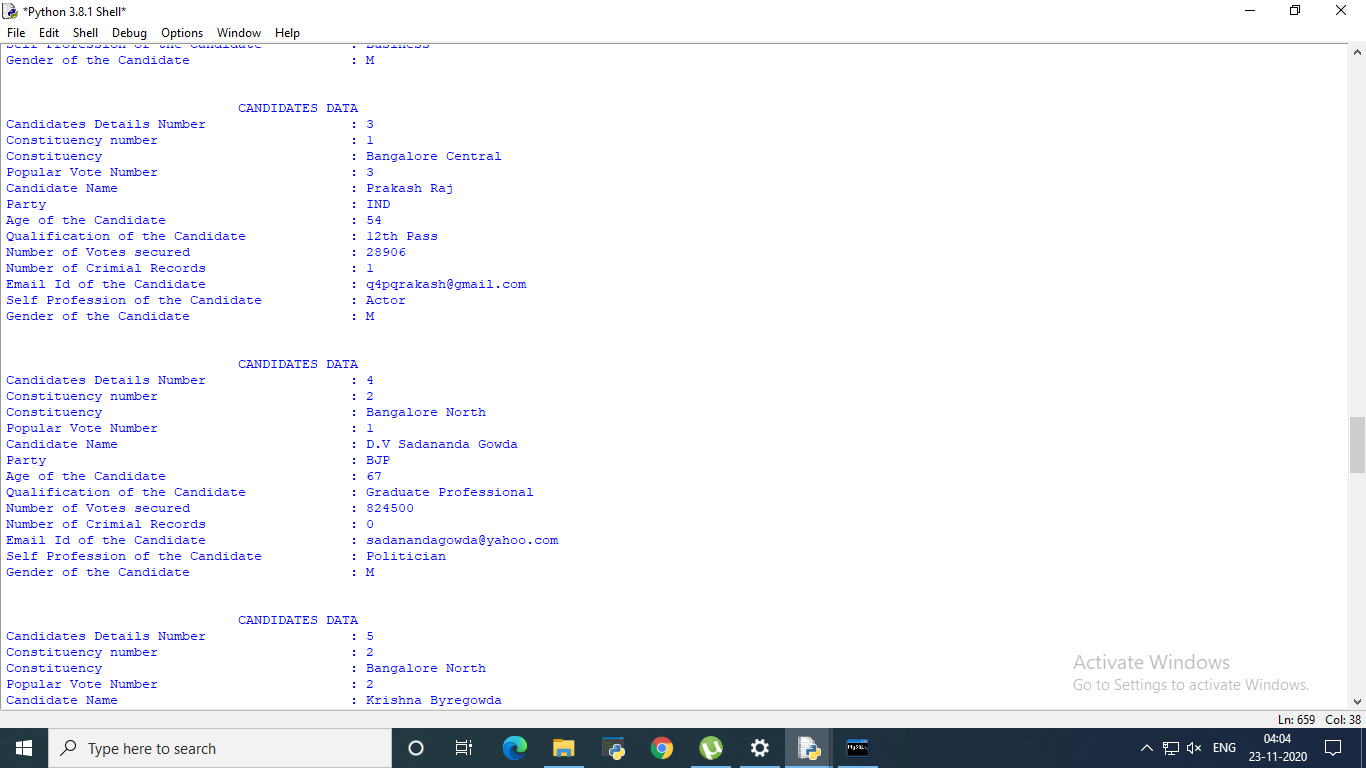
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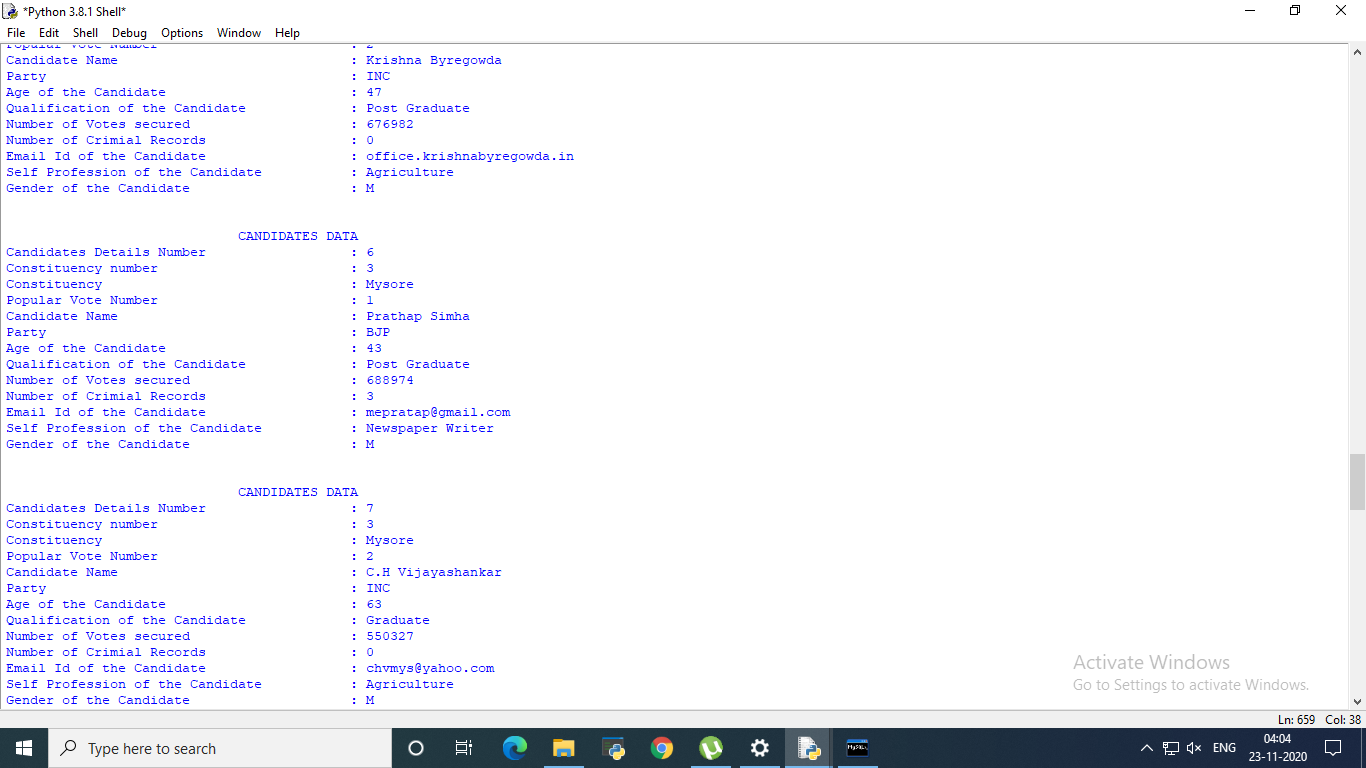
***4.DELETE CANDIDATE'S DETAILS***

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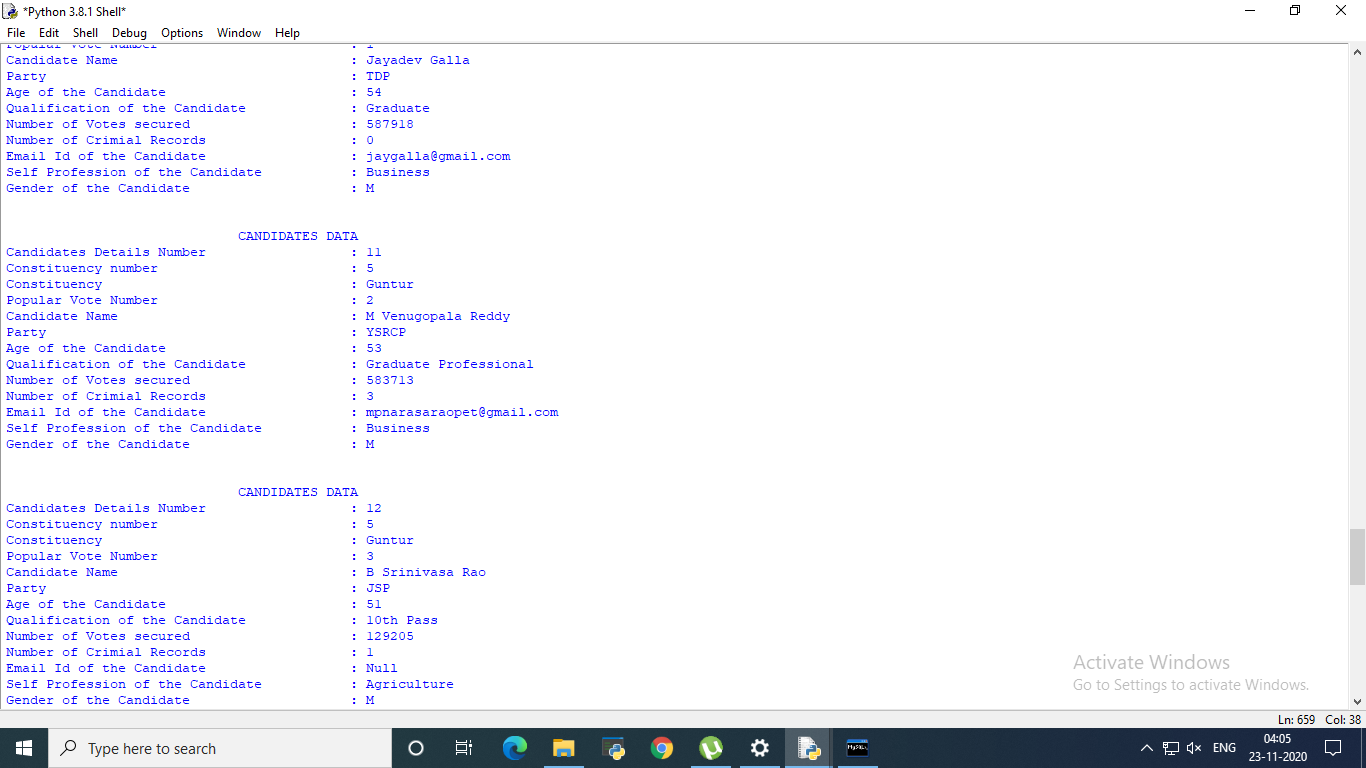
***5.DISPLAY CANDIDATE'S DETAILS***

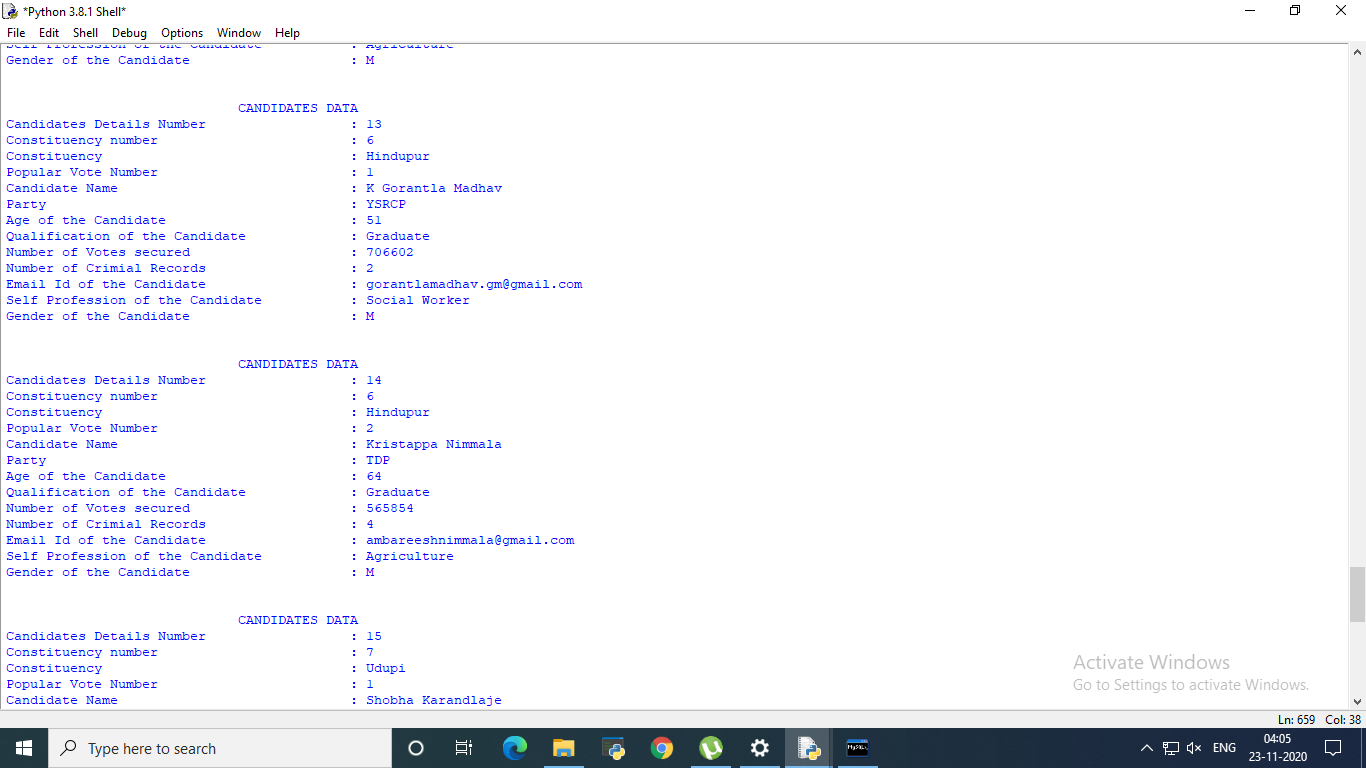
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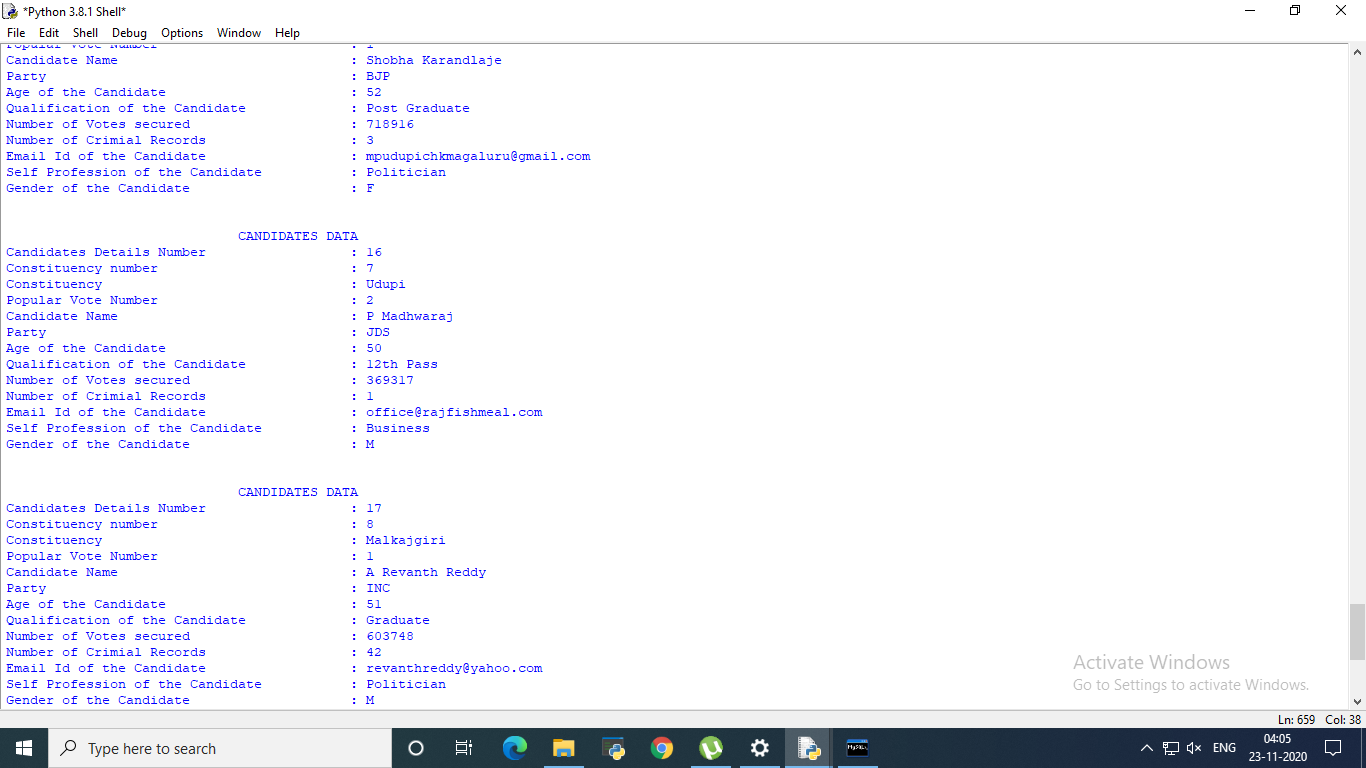
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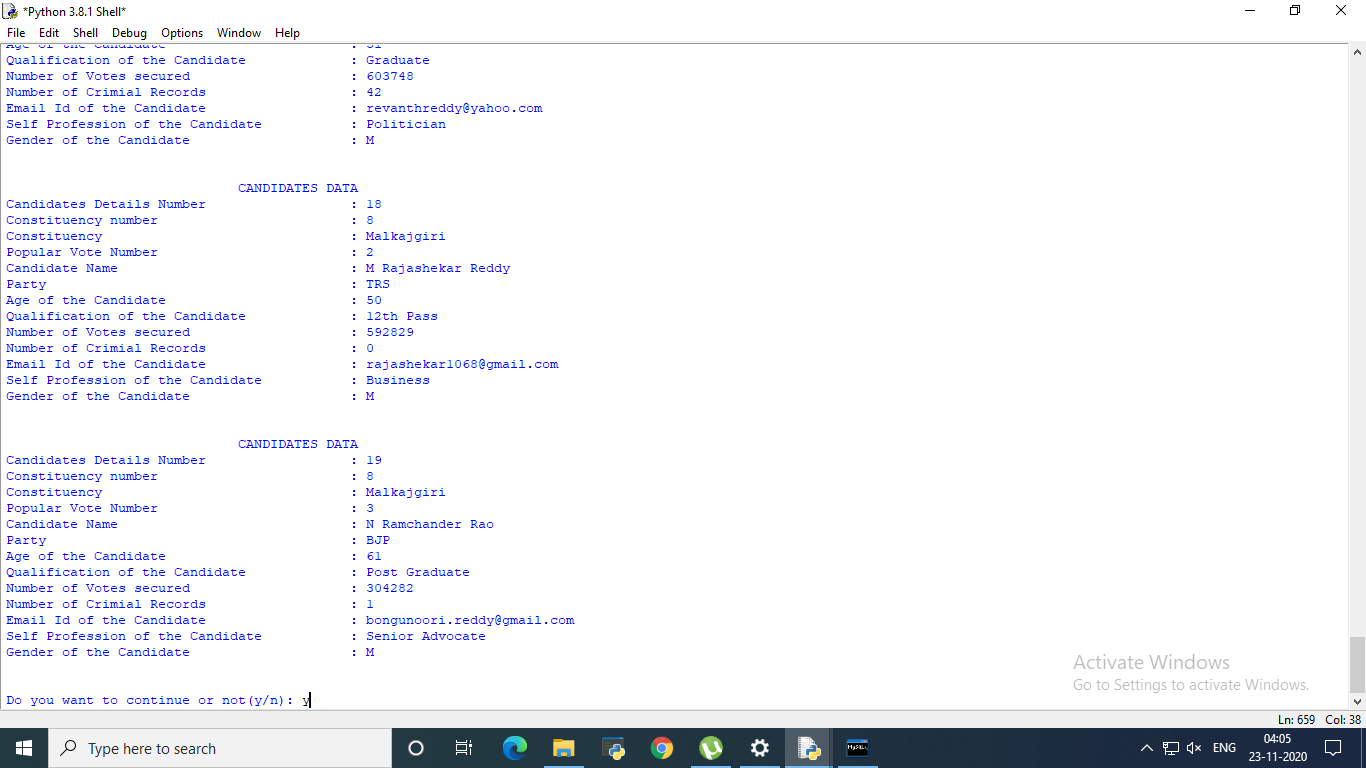
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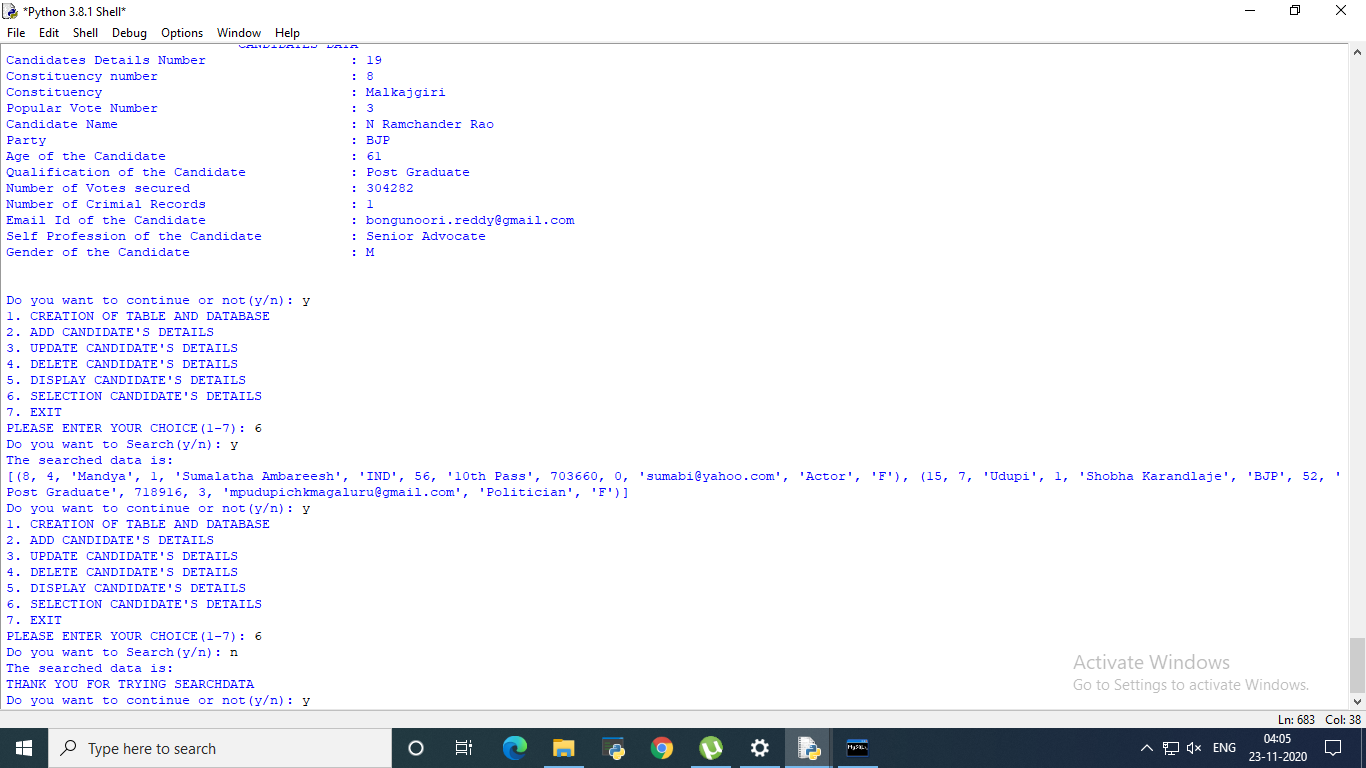
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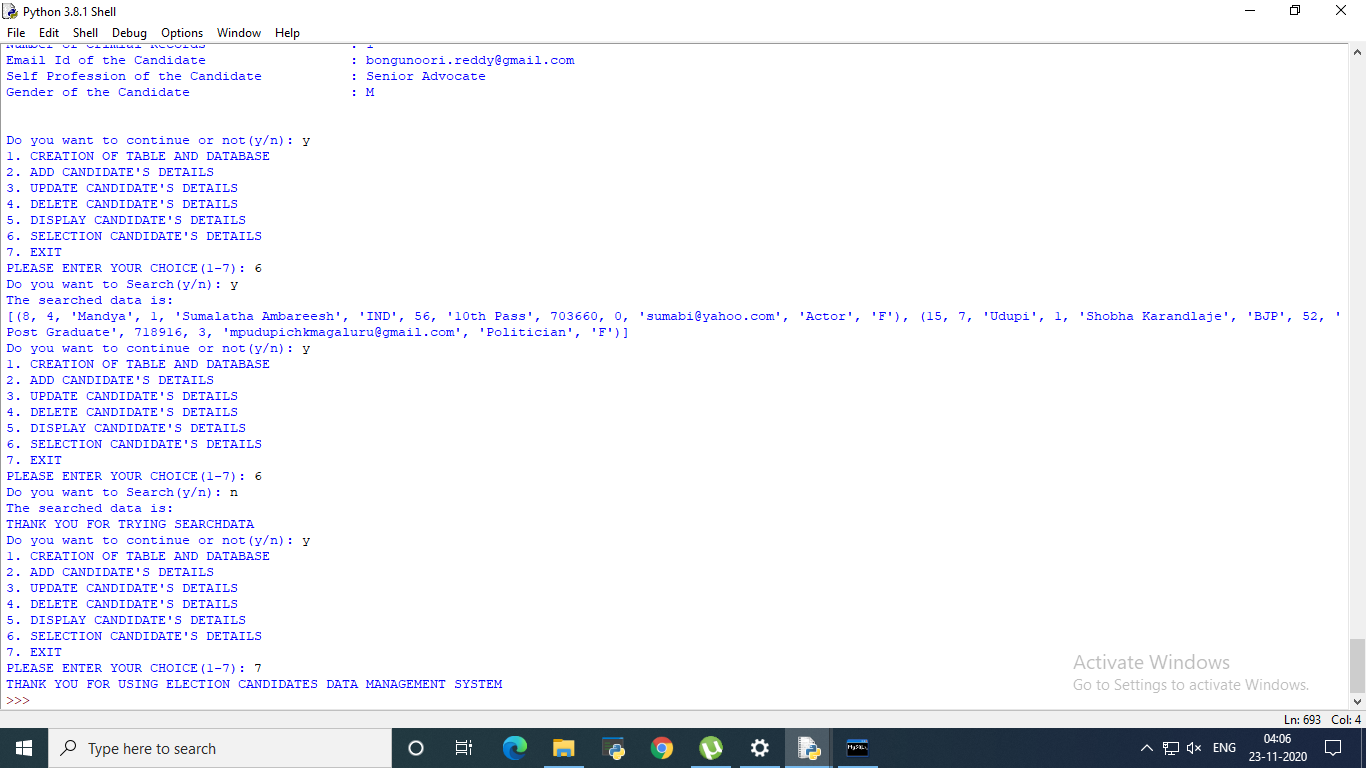
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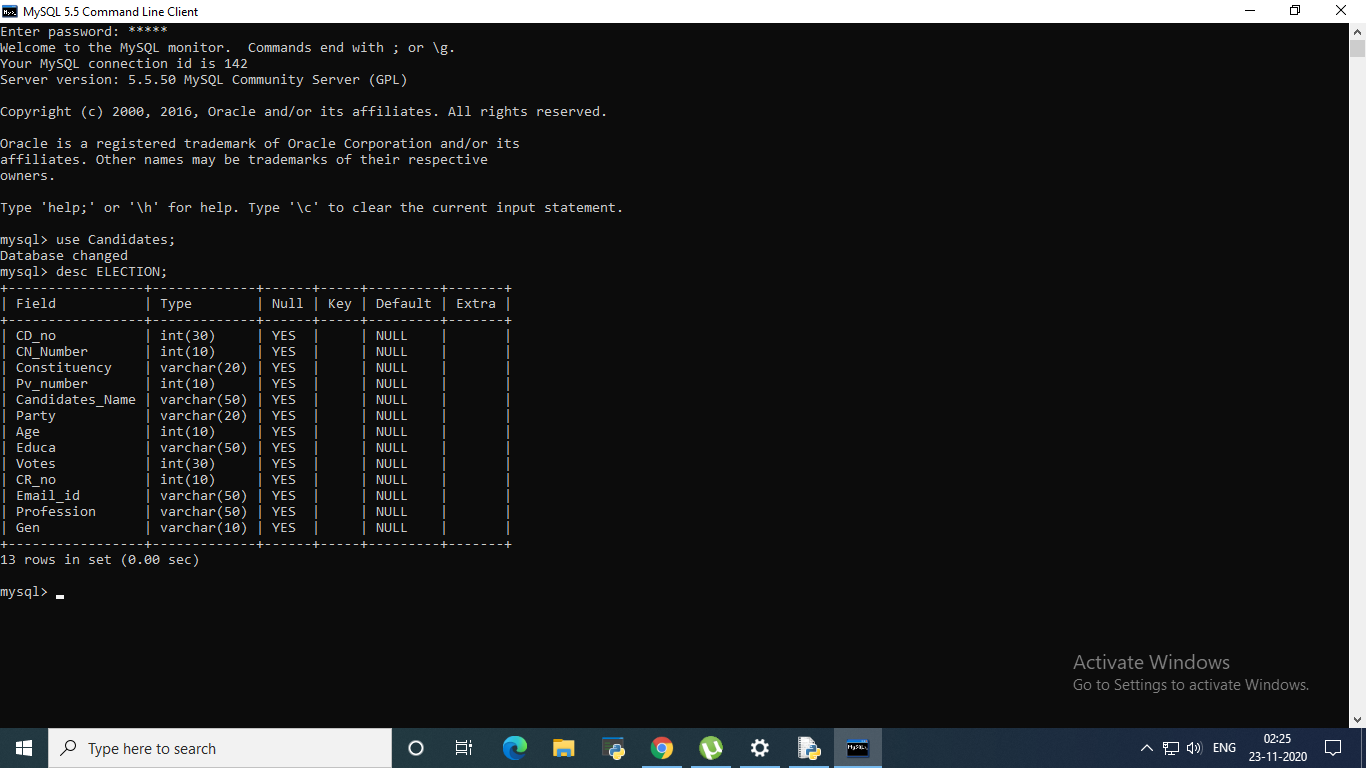
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***6.SEARCHING OF FEMALE CANDIDATE'S DETAILS***

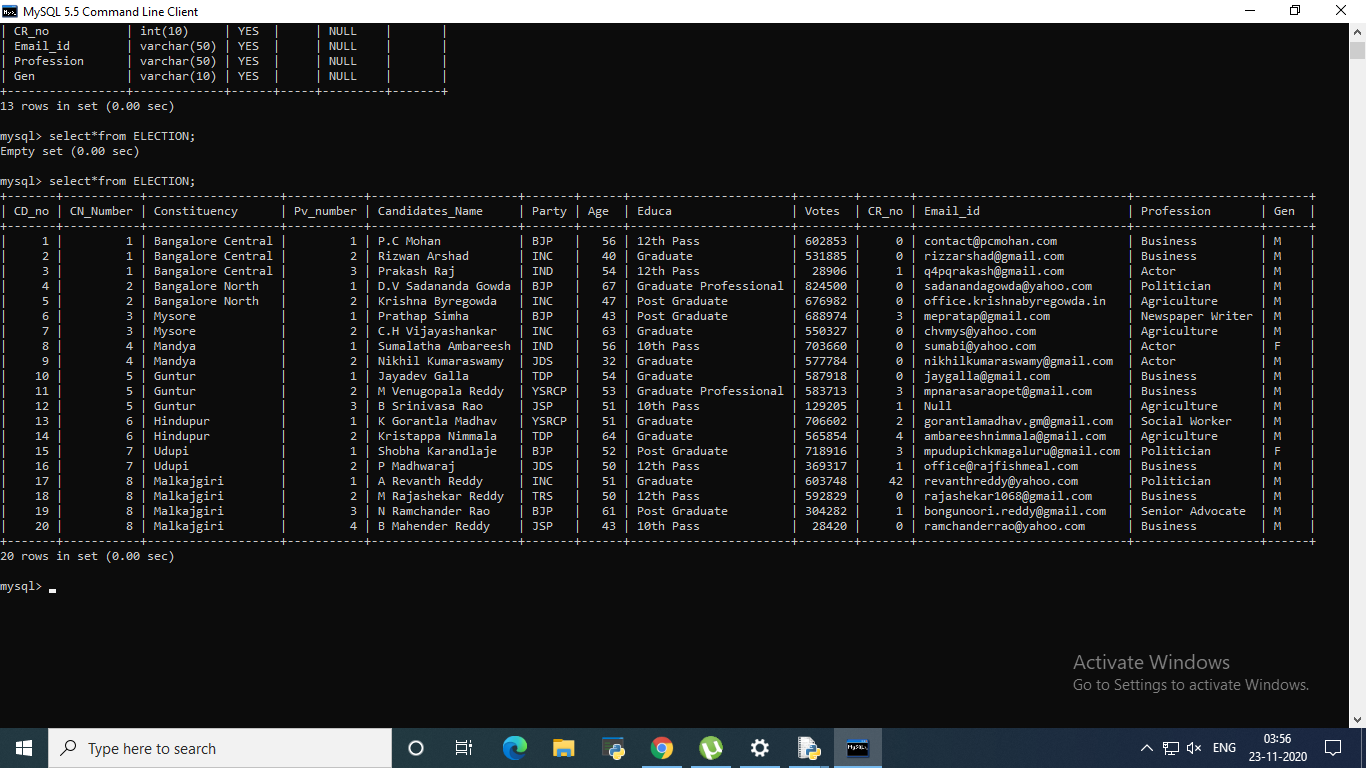
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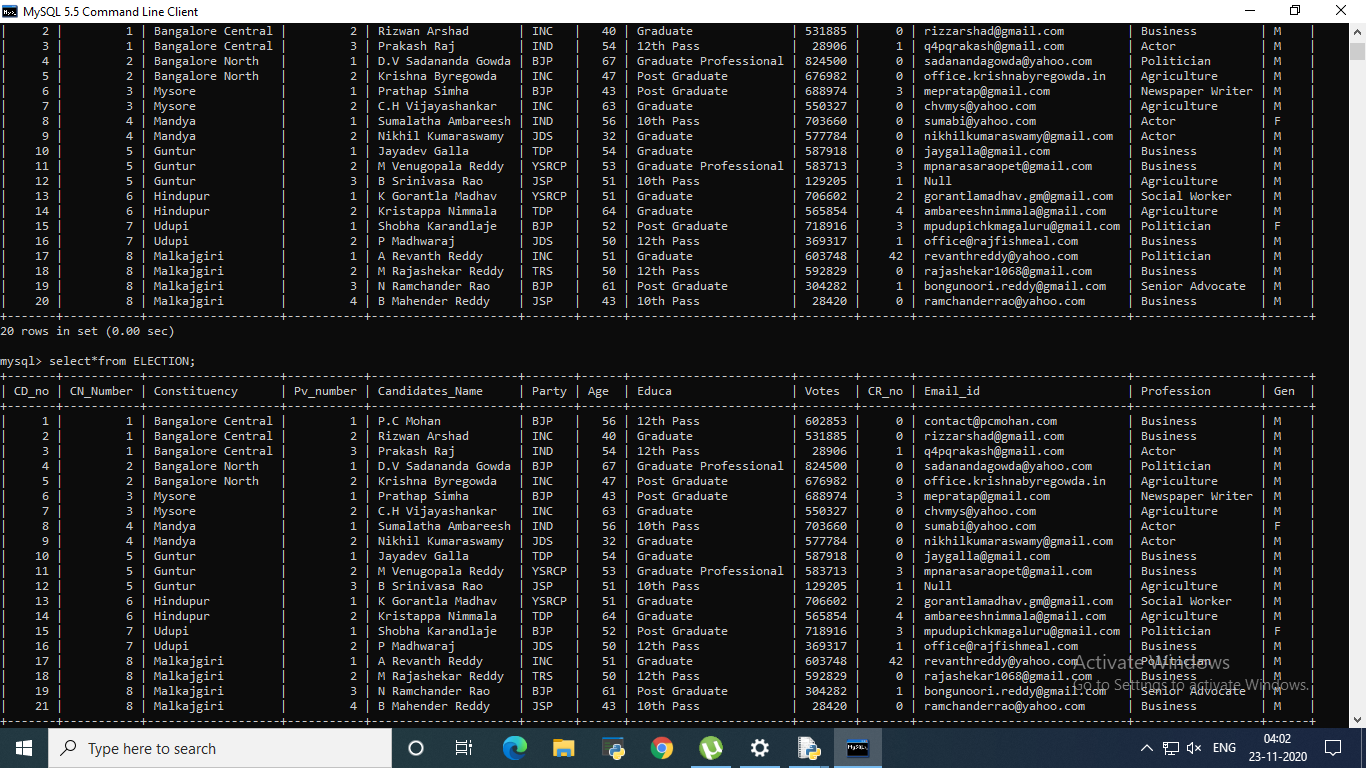
***7.EXIT***

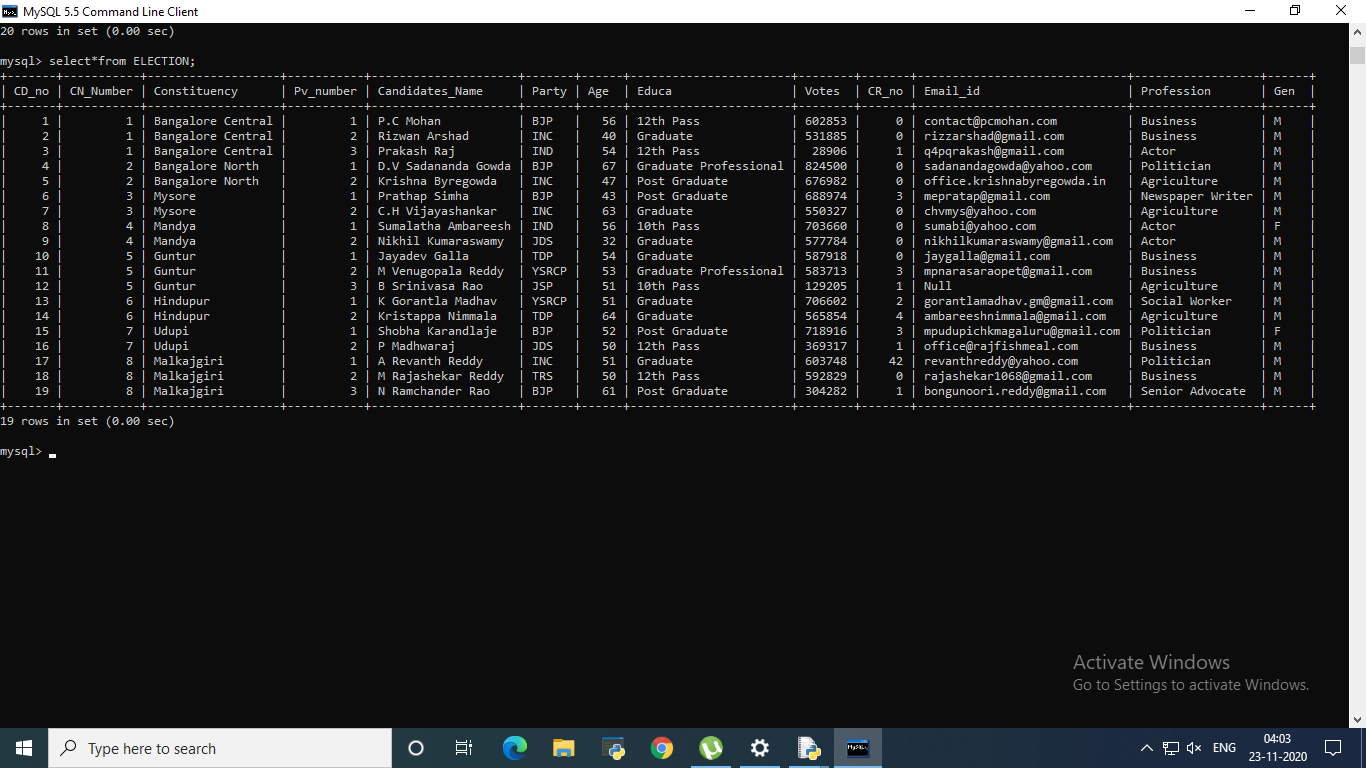
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**SQL SCREENSHOTS**

***1. THE TABLE AFTER ADDING D ATA***

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***2. AFTER UPDATING***

***3. AFTER DELETING ***

**FUTURE SCOPE OF THE PROJECT**

* This project demonstrates basic functionality of a Election Candidates Data Management System.
* Future case scenario for this project is, if in case of few more tables and few more additional datasets and inputs added, that is by having a very detailed collection of the Candidates details such as Photographs, scanned copies of their nomination and specific Criminal crimes, documents which provides their Wealth and liabilities and etc.
* Will turn out to be an effective record management which can be used by the people who vote to know the candidate more clearly and follow him through time.
* With the rising number of Candidates in the decades to come, this project enables the users to organize their data in a systematically, which also helps in keeping the records for a longer period of time.
* More features need to be built into this in order to make it more user friendly. The features that can be added may include rich graphical user interface.
* Users of this software can be authenticated by means of password or by finger print readers and optical detector used by mobile phones.
* This can be turned into a web based application for multi user environment. All these value added features will make the product satisfactory to the user.

**BIBLIOGRAPHY**

1. Computer Science with Python Textbook Class XII (Sumita Arora)
2. The image in the first page is from:

<https://images.app.goo.gl/6qdKg8EWbRzkrueCA>

3.  [https://www.python.org](https://www.python.org/)

**NOTES**