<u>ISHEET H SHETTY</u>

SE IT

ROLL NO 48

TOPIC - BLOOD DONATION MANAGEMENT5 SYSTEM

PYTHON

```
from tkinter import *
import tkinter
import tkinter.messagebox
from tkinter import ttk
import sqlite3
#main page
i=tkinter.Tk(className='blood donation')
i.geometry("1500x1500")
Label(i,text='WELCOME TO BLOOD DONATION PORTAL \n',font=("times new
roman","23","bold"),bg='maroon',justify='center').grid(row=0,column=2,col
umnspan=2)
Label (i, text=' SOME OF YOUR OPTIONS ARE
',font=("arabic","23","bold"),bg='maroon',justify='center').grid(row=1,co
lumn=2, columnspan=2)
#already donated
def donatedcallback():
      tkinter.messagebox.showinfo("already donated blood", "thank you! you
helped save a life ")
#already requested
def requestcallback():
        tkinter.messagebox.showinfo("already requested","thank you! we
will try to contact you shortly ")
#donate form
def donateblood():
     top = Tk()
      top.title('blood donation form')
     top.geometry("1500x15000")
     top['bg']='dark red'
     Label(top,text='\t Please fill the below form
:',font=("arabic","20","bold"),bg='dark red').grid(row=0)
     Label(top,text='First Name',font=("arabic","17","bold"),bg='dark
red').grid(row=3)
     Label(top,text='Last Name',font=("arabic","17","bold"),bg='dark
red').grid(row=4)
     Label(top,text='Age',font=("arabic","17","bold"),bg='dark
red').grid(row=5)
     Label(top,text='phone number',font=("arabic","17","bold"),bg='dark
red').grid(row=6)
     Label(top,text='blood group',font=("arabic","17","bold"),bg='dark
red').grid(row=7)
     Label(top, text='email id', font=("arabic", "17", "bold"), bg='dark
red').grid(row=18)
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Label (top, text='gender', font=("arabic", "17", "bold"), bg='dark
red').grid(row=16)
     Label(top,text='remarks',font=("arabic","17","bold"),bg='dark
red').grid(row=19)
      e1=Entry(top, font=("arabic", 17), width=22)
      e2=Entry(top, font=("arabic", 17), width=22)
      e3=Spinbox(top, from =18, to=50, width=21, font=("arabic", "17", "bold"),
justify='center')
      e4=Entry(top, font=("arabic", 17), width=22)
      e6=Entry(top, font=("arabic", 17), width=22)
      e7=Entry(top, font=("arabic", 17), width=22)
     prev = IntVar()
      chkbx=Checkbutton(top,text='previously
donated', font=("arabic", "17", "bold"), bg='dark red', variable=prev)
     chkbx.grid(row=20,column=1)
      e1.grid(row=3, column=1)
     e2.grid(row=4, column=1)
     e3.grid(row=5, column=1)
     e4.grid(row=6, column=1)
     goption = StringVar(top, "1")
     valuers = {"Male":"Male", "Female": "Female"}
      for(text, value) in valuers.items():
            Radiobutton(top, text = text, variable
=goption, font=("arabic", "17", "bold"), selectcolor="green"
,value=value,indicator=0,activebackground="red",background="orange",width
=20).grid(row=y,column=1)
            y=y+1
      option = StringVar(top, "1")
     values = {"A+":"A+", "A-":"A-", "B+":"B+", "B-":"B-", "O+":"O+", "O-
":"O-", "AB+":"AB+", "AB-":"AB-", }
      for(text, value) in values.items():
            Radiobutton(top,text = text,variable
=option, font=("arabic", "17", "bold"), selectcolor="green"
,value=value,indicator=0,activebackground="red",background="light
blue", width=20) .grid(row=x, column=1)
            x=x+1
      e6.grid(row=18,column=1)
      e7.grid(row=19,column=1)
      def submit():
        #create databse
            conn = sqlite3.connect('blooddonaterequiredlist.db')
            #create cursor
            c=conn.cursor()
            #insert into table
            c.execute("INSERT INTO blooddonationlist
VALUES(:f name,:l name,:age,:phoneno,:bloodgrp,:gender,:emailid,:feedbck,
:prev)",
                              'f name':e1.get(),
                              'l name':e2.get(),
                              'age':e3.get(),
                              'phoneno':e4.get(),
                              'bloodgrp':option.get(),
                              'gender':goption.get(),
                              'emailid':e6.get(),
                              'feedbck':e7.get(),
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'prev':prev.get()
                       })
           conn.commit()
           conn.close()
            #clear text boxes
           e1.delete(0,END)
           e2.delete(0,END)
           e3.delete(0,END)
           e4.delete(0,END)
           option.set(None)
           goption.set(None)
           e6.delete(0,END)
           e7.delete(0,END)
            chkbx.deselect()
           tkinter.messagebox.showinfo("successful", "thank you! your
data has been added to the databse ")
            top.destroy()
      sub=tkinter.Button(top,text="submit",activebackground="blue",width=
20, height=1, bg='green', font=("arabic", "18", "bold"), command=submit).grid(r
ow=23, column=1)
      deletetop=tkinter.Button(top,text="close
window", activebackground="blue", width=20, height=1, bg='black', fg="white", f
ont=("arabic","18","bold"),command=top.destroy).grid(row=23,column=0)
#show donated list
def showstats():
    stat=Tk()
    stat.title('show statistics')
    stat.geometry("1500x1500")
    stat['bq']='#49A'
    #Label(stat,text='the blood goups donated till now are
:\n',font=("arabic","22","bold"),bg='#49A').grid(row=0)
    #Label(stat,bg='#49A',text="id firstname
                                                lastname
                                                             age
                                                           email id
phonenumber
                   blood group
                                    gender
remarks
           first time
\n", font=("arabic", "17", "bold"), justify=LEFT).grid(row=1)
    appLabel = Label(stat, text="SHOW DONATED LIST",fg="#06a099",
width=40)
    appLabel.config(font=("Sylfaen", 30))
    appLabel.pack()
    tree = ttk.Treeview(stat)
    tree["columns"] = ("zero", "one", "two", "three",
"four", "five", "six", "seven", "eight", "nine", "ten")
    tree.heading("zero",text="ID")
    tree.heading("one", text="First Name")
    tree.heading("two", text="Last Name")
    tree.heading("three", text="Age")
    tree.heading("four", text="phone no")
    tree.heading("five", text="blood group")
    tree.heading("six", text="gender")
    tree.heading("seven", text="email id")
    tree.heading("eight", text="renarks")
    tree.heading("nine", text="first time")
    tree.column("zero", width=50, anchor='center')
    tree.column("one", width=100, anchor="center")
    tree.column("two", width=100, anchor="center")
    tree.column("three", width=100, anchor="center")
```

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tree.column("four", width=150, anchor="center")
    tree.column("five", width=100, anchor="center")
    tree.column("six", width=100, anchor="center")
    tree.column("seven", width=200, anchor="center")
    tree.column("eight", width=100, anchor="center")
    tree.column("nine", width=100, anchor="center")
  #create databse
    conn = sqlite3.connect('blooddonaterequiredlist.db')
    #create cursor
    c=conn.cursor()
   c.execute("SELECT *,oid FROM blooddonationlist;")
    i = 0
    for row in c :
tree.insert('', "end", i, text="", values=(row[9], row[0], row[1], row[2], row[3]
,row[4],row[5],row[6],row[7],row[8]))
        i = i + 1
   tree.pack()
    conn.commit()
   conn.close()
   stat.mainloop()
#delete from donated list
def deleted():
     deler = Tk()
     deler.title('delete an entry ')
     deler.geometry('1500x1500')
     deler['bq']='orangered'
     delet=Label(deler,text="please enter the id of the entry to be
deleted in the below box ", font=('arabic', "20", "bold italic"))
     delet['bg']='orangered'
     delet.grid(row=5, column=5, padx=10, pady=10)
     deletr=Entry(deler,font=('arabic',"20","bold italic"),width=23)
     deletr.grid(row=15, column=5, padx=10, pady=10)
     def deleterow():
           #create databse
           conn = sqlite3.connect('blooddonaterequiredlist.db')
           #create cursor
           c=conn.cursor()
           #delete a record
           c.execute("DELETE from blooddonationlist WHERE oid = " +
deletr.get())
           conn.commit()
           conn.close()
           deletr.delete(0,END)
           tkinter.messagebox.showinfo("successful", "your data has been
deleted from the databse ")
           deler.destrov()
     rowdel=tkinter.Button(deler, text='delete from
list',font=('arabic',"20","bold
italic"), width=20,bd=5,height=1,bg='red',activebackground="blue",command=
deleterow).grid(row=16,column=5)
```

#requirement form

```
def reqbloodform():
      req = Tk()
      req.title('blood requirement form')
      req.geometry("1500x1500")
      req['bg']='dark red'
      Label(req,text='\t Please fill the below form
:', font=("arabic", "20", "bold"), bg='dark red').grid(row=0)
      Label (req,text='First Name',font=("arabic","17","bold"),bg='dark
red').grid(row=3)
      Label (req, text='Last Name', font=("arabic", "17", "bold"), bg='dark
red').grid(row=4)
      Label (req, text='Age', font=("arabic", "17", "bold"), bg='dark
red').grid(row=5)
      Label(req,text='phone number',font=("arabic","17","bold"),bg='dark
red').grid(row=6)
      Label(req,text='required blood
group', font=("arabic", "17", "bold"), bg='dark red').grid(row=7)
      Label (req, text='email id', font=("arabic", "17", "bold"), bq='dark
red').grid(row=18)
      Label (req, text='gender', font=("arabic", "17", "bold"), bg='dark
red').grid(row=16)
      Label (req, text='ever donated', font=("arabic", "17", "bold"), bg='dark
red').grid(row=19)
      r1=Entry(req, font=("arabic", 17), width=22)
      r2=Entry(req, font=("arabic", 17), width=22)
      r3=Spinbox(req, from =18, to=50, width=21, font=("arabic", "17", "bold"),
justify='center')
      r4=Entry(req, font=("arabic", 17), width=22)
      r6=Entry(req, font=("arabic", 17), width=22)
      r7=Entry(req, font=("arabic", 17), width=22)
      reqprev = IntVar()
      #chkbx=Checkbutton(top,text='previously
donated',font=("arabic",17),variable=prev)
      #chkbx.grid(row=20,column=1)
      r1.grid(row=3, column=1)
      r2.grid(row=4, column=1)
      r3.grid(row=5, column=1)
      r4.grid(row=6, column=1)
      reggoption = StringVar(req,"1")
      valuers = {"Male":"Male", "Female": "Female"}
      v = 16
      for(text, value) in valuers.items():
            Radiobutton(req, text = text, variable
=reqgoption, font=("arabic", "17", "bold"), selectcolor="green"
,value=value,indicator=0,activebackground="red",background="orange",width
=20).grid(row=y,column=1)
            y=y+1
      regoption = StringVar(reg,"1")
      values = {"A+":"A+", "A-":"A-", "B+":"B+", "B-":"B-", "O+":"O+", "O-
":"O-", "AB+":"AB+", "AB-":"AB-", }
      for(text, value) in values.items():
            Radiobutton(req,text = text, variable
=reqoption, font=("arabic", "17", "bold"), selectcolor="green"
,value=value,indicator=0,activebackground="red",background="light
blue", width=20) .grid(row=x, column=1)
            x=x+1
      r6.grid(row=18,column=1)
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r7.grid(row=19,column=1)
      def reqsubmit():
        #create databse
           conn = sqlite3.connect('blooddonaterequiredlist.db')
           #create cursor
           rc=conn.cursor()
           #insert into table
           rc.execute("INSERT INTO bloodrequiredlist VALUES
(:f name,:l name,:age,:phoneno,:bloodgrp,:gender,:emailid,:everdonated)",
                                   'f name':r1.get(),
                                   'l name':r2.get(),
                                   'age':r3.get(),
                                   'phoneno':r4.get(),
                                   'bloodgrp':reqoption.get(),
                                   'gender':reqgoption.get(),
                                   'emailid':r6.get(),
                                   'everdonated':r7.get()
                             }
           conn.commit()
           conn.close()
           #clear text boxes
           r1.delete(0,END)
           r2.delete(0,END)
           r3.delete(0,END)
           r4.delete(0,END)
           reqoption.set(None)
           reggoption.set(None)
           r6.delete(0,END)
           r7.delete(0,END)
           #chkbx.deselect()
           tkinter.messagebox.showinfo("successful", "thank you! your
data has been added to the required blood list ")
           req.destroy()
     sub=tkinter.Button(req,text="submit",activebackground="blue",width=
18, height=1, bg='green', font=("arabic", "20", "bold"), command=reqsubmit).gri
d(row=23,column=1)
      deletetop=tkinter.Button(req,text="close
window", activebackground="blue", fg="white", width=18, height=1, bg='black', f
ont=("arabic", "20", "bold"), command=req.destroy).grid(row=23, column=0)
#show requirement list
def showreq():
    regstat=Tk()
    regstat.title('show requirement list')
    regstat.geometry("1500x1500")
    regstat['bg']='#49A'
      #Label(reqstat,text='the blood goups required til now are
:\n',font=("arabic","22","bold"),bg='#49A').grid(row=0)
      #Label(reqstat,bg='#49A',text=" id firstname
                                                         lastname
                                                                      age
phonenumber blood group
                                                  email id
                           gender
ever donated \n", font=("arabic","17","bold"), justify=LEFT).grid(row=1)
      #create databse
    conn = sqlite3.connect('blooddonaterequiredlist.db')
    #create cursor
    c=conn.cursor()
```

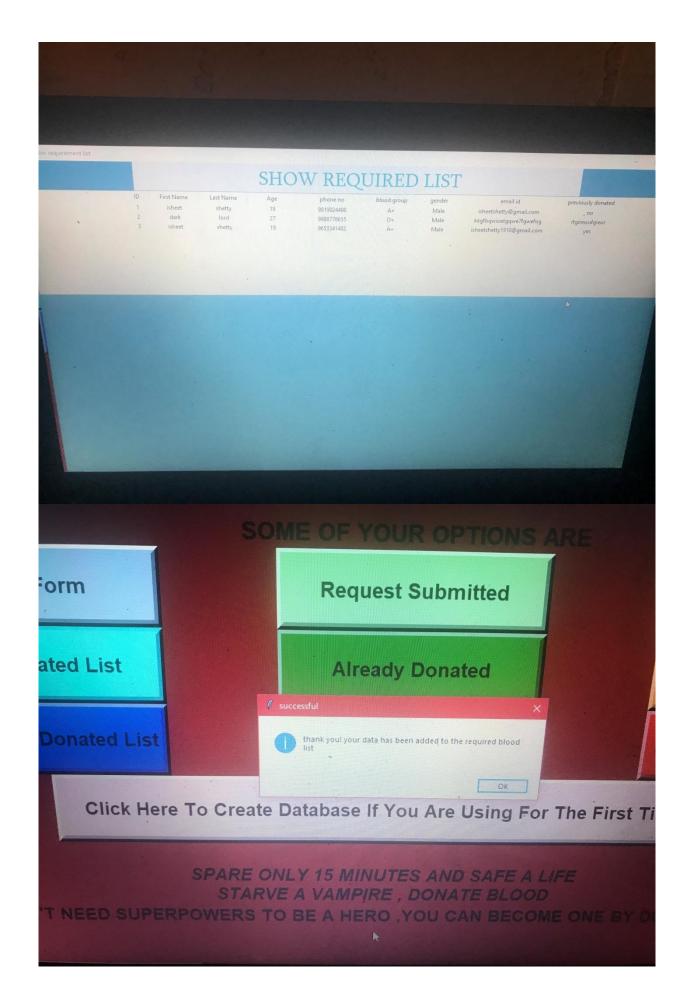
```
'''c.execute("SELECT *,oid FROM bloodrequiredlist")
     reqrecords=c.fetchall()
    #loop results
     print reqrecord = ''
     for record in regrecords:
         print reqrecord += str(record[8])+" "+str(record[0]) +"\t "
+str(record[1]) +"\t "+str(record[2]) +" \t " + str(record[3]) +" \t
"+str(record[4]) +"\t"+str(record[5]) +" \t "+str(record[6]) +" \t
"+str(record[7])+"\n"
     reqquery label =
Label (reqstat, text=print reqrecord, font=("arabic", "18", "bold"), bg='#49A',
justify='left')
     reqquery label.grid(row=15,column=0,columnspan=2)
     conn.commit()
     conn.close()'''
    appLabel = Label(regstat, text="SHOW REQUIRED LIST",fg="#06a099",
    appLabel.config(font=("Sylfaen", 30))
    appLabel.pack()
    tree = ttk.Treeview(reqstat)
    tree["columns"] = ("zero", "one", "two", "three",
"four", "five", "six", "seven", "eight", "nine", "ten")
    tree.heading("zero", text="ID")
    tree.heading("one", text="First Name")
    tree.heading("two", text="Last Name")
    tree.heading("three", text="Age")
    tree.heading("four", text="phone no")
    tree.heading("five", text="blood group")
    tree.heading("six", text="gender")
    tree.heading("seven", text="email id")
   tree.heading("eight", text="previously donated")
   tree.column("zero", width=50, anchor='center')
   tree.column("one", width=100, anchor="center")
   tree.column("two", width=100, anchor="center")
   tree.column("three", width=100, anchor="center")
   tree.column("four", width=150, anchor="center")
    tree.column("five", width=100, anchor="center")
   tree.column("six", width=100, anchor="center")
    tree.column("seven", width=200, anchor="center")
    tree.column("eight", width=150, anchor="center")
    c.execute("SELECT *,oid FROM bloodrequiredlist;")
    i = 0
    for row in c :
tree.insert('',"end",i,text="",values=(row[8],row[0],row[1],row[2],row[3]
,row[4],row[5],row[6],row[7]))
        i = i + 1
    tree.pack()
```

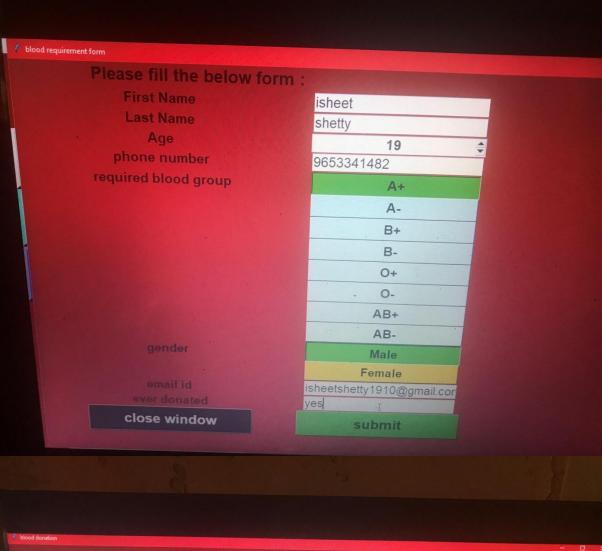
```
conn.commit()
    conn.close()
    reqstat.mainloop()
#delete from req list
def deletedreq():
     regdeler = Tk()
      reqdeler.title('delete an entry ')
      regdeler.geometry('1500x1500')
      regdeler['bg']='orangered'
      reqdelet=Label(reqdeler,text="please enter the id of the entry to
be deleted from reqirement in the below box ",font=('arabic',"20","bold
italic"))
      reqdelet['bg']='orangered'
      reqdelet.grid(row=5,column=5,padx=10,pady=10)
      reqdeletr=Entry(reqdeler, font=('arabic', "20", "bold
italic"), width=29)
      regdeletr.grid(row=15,column=5,padx=10,pady=10)
      def deleterow():
           #create databse
           conn = sqlite3.connect('blooddonaterequiredlist.db')
           #create cursor
           c=conn.cursor()
           #delete a record
           c.execute("DELETE from bloodrequiredlist WHERE oid = " +
reqdeletr.get())
           conn.commit()
           conn.close()
           regdeletr.delete(0,END)
           tkinter.messagebox.showinfo("successful", "your data has been
deleted from the requirement databse ")
           reqdeler.destroy()
      regrowdel=tkinter.Button(regdeler, text='delete from
list',font=('arabic',"20","bold
italic"),width=25,bd=5,height=1,bg='red',activebackground="blue",command=
deleterow).grid(row=16,column=5)
#create database
def createdatabase():
      import sqlite3
      #databse
      conn = sqlite3.connect('blooddonaterequiredlist.db')
      c = conn.cursor()
      #create table
      c.execute("""CREATE TABLE IF NOT EXISTS blooddonationlist (
            firstname text,
            lastname text,
            age integer,
            phone number integer,
            bloodgroup varchar,
            gender text,
            emailid varchar,
            feedback text,
            prevdon boolean
       )
      conn.commit()
```

```
conn.close()
      tkinter.messagebox.showinfo("successful", "you created table for
blood donation list ")
     conn = sqlite3.connect('blooddonaterequiredlist.db')
      c = conn.cursor()
      #create table
      c.execute("""CREATE TABLE IF NOT EXISTS bloodrequiredlist (
            firstname text,
            lastname text,
            age integer,
            phone number integer,
            reqbloodgroup varchar,
            gender text,
            emailid varchar,
            everdonated text
            ) """)
      conn.commit()
      conn.close()
      tkinter.messagebox.showinfo("successful", "you created table for
blood required list ")
#buttons
#donate form
b1=tkinter.Button(i, text='Donate
Form', font=("arabic", "20", "bold"), width=20, bd=5, activebackground="black",
activeforeground="white", height=2,bg='light
blue',command=donateblood,borderwidth=10).grid(row=7,column=1)
#show donated list
b2=tkinter.Button(i,text='Show Donated
List', font=("arabic", "20", "bold"), width=20, bd=5, activebackground="black",
activeforeground="white", height=2, bg='aqua', command=showstats, borderwidth
=10).grid(row=15,column=1)
#delete from donated list button
b3=tkinter.Button(i, text='Delete From Donated
List', font=("arabic", "20", "bold"), width=20, bd=5, height=2, bg='blue', active
background="black", activeforeground="white", command=deleted, justify='cent
er',borderwidth=10).grid(row=30,column=1)
#request submitted
b4=tkinter.Button(i,text="Request
Submitted", font=("arabic", "20", "bold"), width=20, bd=5, height=2, bg="light")
green", activebackground="black", activeforeground="white", command=requestc
allback,borderwidth=10,justify='center').grid(row=7,column=2,columnspan=2
)
#already donated
b5=tkinter.Button(i,text="Already
Donated", font=("arabic", "20", "bold"), width=20, bd=5, height=2, bg="green", ac
tivebackground="black",activeforeground="white",command=donatedcallback,b
orderwidth=10, justify='center').grid(row=15,column=2,columnspan=2)
#close button
b6=tkinter.Button(i, text='Close This
Window', font=("arabic", "20", "bold"), width=20, bd=5, height=2, bg='black', fg=
'white', activebackground="black", activeforeground="white", command=i.destr
oy, justify='center', borderwidth=10).grid(row=30,column=2,columnspan=2)
#requirement form
b7=tkinter.Button(i, text='Required Blood Form
',font=("arabic","20","bold"),width=17,bd=5,height=2,bg='gold',activeback
```

```
ground="black", activeforeground="white", borderwidth=10, command=regbloodfo
rm).grid(row=7,column=4)
#show req list
b8=tkinter.Button(i, text='Show Required List
',font=("arabic","20","bold"),width=17,bd=5,height=2,bg='dark
orange', activebackground="black", activeforeground="white", borderwidth=10,
command=showreq).grid(row=15,column=4)
#delete from requirement list
b9=tkinter.Button(i, text='Delete From Req
List', font=("arabic", "20", "bold"), width=17, bd=5, height=2, bg='red', activeb
\verb|ackground="black", active for eground="white", \verb|command=| deleted req|, \verb|justify='ce||
nter',borderwidth=10).grid(row=30,column=4)
#create database
b10=tkinter.Button(i, text='Click Here To Create Database If You Are
Using For The First
Time', font=("arabic", "20", "bold"), width=55, bd=5, height=2, bg='pink', active
background="black", activeforeground="red", command=createdatabase, justify=
'center',borderwidth=10).grid(row=35,column=1,columnspan=4)
Label(i,text="\n SPARE ONLY 15 MINUTES AND SAFE A LIFE \nSTARVE A VAMPIRE
, DONATE BLOOD" , font=("arabic", "20", "italic
bold"), bg='maroon', justify='center').grid(row=40,column=1,columnspan=4)
Label(i,text="YOU DON'T NEED SUPERPOWERS TO BE A HERO , YOU CAN BECOME ONE
BY DONATING
BLOOD", font=("arabic", "20", "bold"), bg='maroon', justify='center').grid(row
=41, column=1, columnspan=4)
i['bg']='maroon'
i.mainloop()
```

Photos OF OUTUPT EXECUTED CODE





WELCOME TO BLOOD DONATION PORTAL

SOME OF YOUR OPTIONS ARE

Request Submitted

Required Blood Form

Show Donated List

Close This Window

Click Here To Create Database If You Are Using For The First Time

