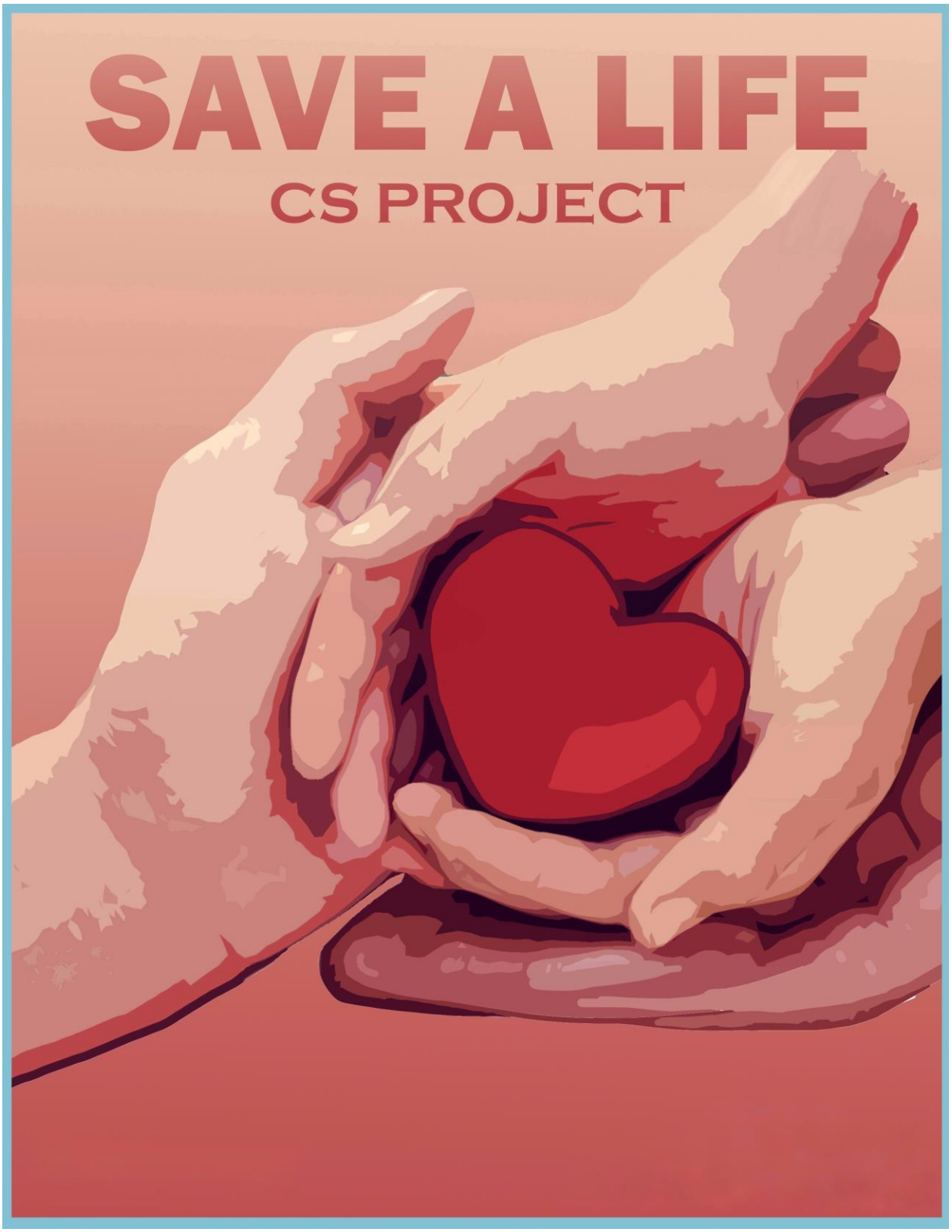

SAVE A LIFE
CS PROJECT

BHAVAN'S VIDYA MANDIR

KOCHI

ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION

RECORD OF PROJECT WORK IN COMPUTER SCIENCE

(Term II)

Name:……..

Reg. No:……..Std:……Div:……..

Project Name / Topic : ……

Certified that this is a bonafide record of project work of …….
…… in this School.

Submitted for the Practical Examination held in……..
20…..…. at ……

Head of the Dept. **Project Guide** **External Examiner**

Principal **Date** **School Seal**

INDEX:

1.	**ACKNOWLEDGEMENT**
2.	**OBJECTIVE**
3.	**DESCRIPTION**
4.	**TEAM DETAILS**
5.	**DRAWBACKS OF EXISTING SYSTEM**
6.	**SOFTWARE NEEDS**
7.	**WORKING METHODOLOGY**
8.	**FLOWCHART**
9.	**STRUCTURE OF TABLES**

10.	**PROGRAM CODE**
11.	**OUTPUT SCREENSHOTS**
12.	**BIBLIOGRAPHY**

1. Acknowledgement

I express my sincere gratitude to all those who have been involved, encouraged and supported me throughout the completion of this project.

I would like to place on record my heartfelt gratitude to our principal Sri K Suresh and vice principal Smt Jyothi Pradeep for their unfailing support and motivation and in providing me all the required facilities for the completion of this project.

I express my deep sense of acknowledgement to Ms. Seema C, my computer science teacher for her valuable guidance and in mentoring me for the best to be put forward.

I am extremely indebted to my fellow team members who worked with me efficiently and assisted me in the timely completion of this project despite the hardships of the virtual environment

Last but not the least, I extend my sincere gratitude to my family and all my friends for helping and supporting me throughout the process.

2.Objective

To create a software which:

- ❖ effectively manages the records detailing organ transplantation and blood donation system
- ❖ increases efficiency while sorting and manipulating data
- ❖ offers a secure platform for sharing confidential medical data
- ❖ return suitable output of donor details on the basis of fundamental parameters
- ❖ to represent graphically the desired statistics

The above-mentioned fundamental parameters include:

i. medical history of both donor and receiver
ii. compatible blood groups
iii. status (ie, alive/deceased)

3. Description

Today, as the world continues to strive and struggle to regain normalcy in the midst of the pandemic, societal welfare as a whole has been marginally disregarded.

Blood donation drives have been affected, further resulting in reduced stocks of blood and its components. Blood banks and transfusion services are struggling to keep up with the demand in the wake of the ongoing crisis. Since blood cannot be artificially synthesized and there are no substitutes, patients depend solely on donations.

Similarly, India's organ donation rate is one of the lowest in the world. With the organ transplantation programme temporarily suspended during the lockdown as a measure to avert the spread of COVID-19, the need for suitable donors has stockpiled to a rate deemed extremely overwhelming.

Our software aspires to present data in the most structured and organized way possible while maintaining donor-receiver confidentiality. Highly prioritized sorting of receivers has been employed to ensure better healthcare to all, regardless of their social and financial background.

4. Team Details

- Devika Rajeevan
  Class: XII A Roll No:17
- Krishnapriya J
  Class: XII A Roll No:27
- Rajashree Jayaseel
  Class: XII A Roll No:33

5. Drawbacks of existing system

- The current system used fails to prioritize on the basis of severity of one's condition and relies on certain other factors.

- Also, the astounding lack of resources available to the underprivileged has not been given enough deliberation

6. Software needs

i. **Python**: Utilizing python can be considered a smart choice due to the extensive standard library available. The readability of Python could contribute to relative easiness in comprehension.

ii. **MySQL**: Using an RDBMS like this could potentially help reduce data redundancy and provide a more secure data storage system. Organizing data in tables could prove to be reliable for easy data retrieval.

iii. **MySQL connector**: It offers a user-friendly portal which aids in effortless and seamless linking of python and MySQL.

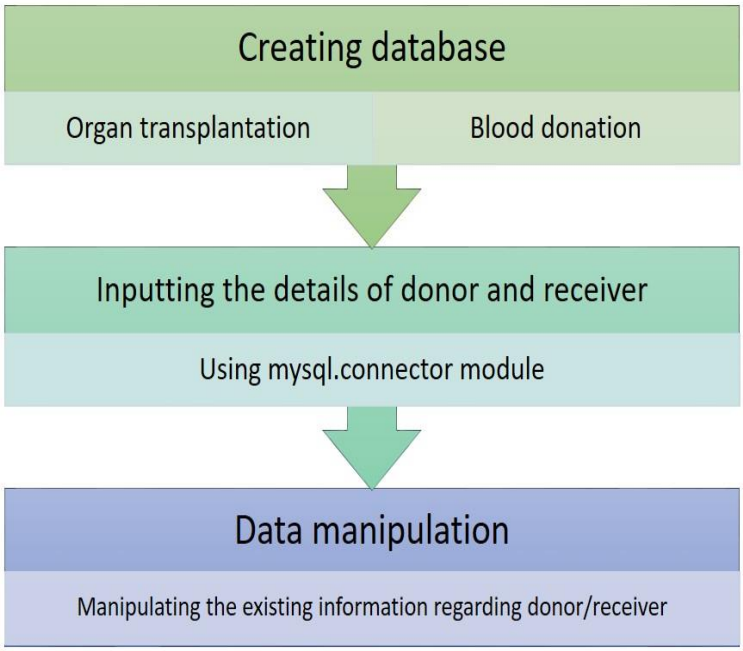
7. Working methodology

- By creating database using MySQL for organ transplantation and blood donation, we aim to reduce data redundancy.
- Matplotlib module could be used for better visualization of the prevailing situation.
- Using python-SQL interface, the necessary data can be collected and passed onto the database.
- After verifying donor-receiver compatibility, best possible matches are displayed in a tabular form, making it easier to comprehend.

Once you enter the software, you will be displayed some options:

1. **Category** (where in you will have to enter whether for blood donation/organ transplantation)
2. **Donor/receiver**
3. Once you enter your category, the program will show some options and you can choose based on your needs.
4. **a. Enter your data**
   b. Access information
   c. Delete your data
   d. Change your existing information
   e. See demographic trends
   f. Find your match (the program will be matching up with the details of various donors and receivers (based upon the information you have given) and will be displaying the best compatible pairs.

8.Flowchart


Creating database
Organ transplantation
Blood donation
Inputting the details of donor and receiver
Using mysql.connector module
Data manipulation
Manipulating the existing information regarding donor/receiver

9.Structure of table

a. Blood Donor

Reg_no	Name	Aadhar_id	Age	Blood_grp
1	zoya	1453628789	29	o+
2	Gayathri	1267345942	56	B+
3	rithu	774411002255	36	A+
4	usha	995111024758	49	B+
5	fathima	111245217732	35	AB+
6	hari	756942351486	39	A-
7	jyothi	220147745632	34	AB-
8	harshita	565589641235	22	B-
9	priya	845698745698	46	B-
10	sona	991124753214	30	A+

b. Blood Receiver

Reg_no	Name	Aadhar_id	Age	Blood_grp	Date_of_registration
101	athira	2468019	20	B+	2021-06-05
103	aashik	24678919	27	A+	2021-07-12
113	aashikya	245678919	27	o+	2021-02-22
919	shally	741025896301	50	O-	2021-08-25
1100	rahna	112244112244	37	A-	2020-06-21
1135	fazal	998541203647	37	A+	2021-09-09
1166	goutham	788847885123	46	A-	2021-06-03
1298	sajeev	111233512456	50	O+	2021-10-06
1440	sharath	885522336699	32	O-	2021-03-15
1612	krishnapriya	445566332514	24	AB+	2021-01-22

c. Organ Donor

Reg_no	Name	Aadhar_id	age	blood_group	status	organ
2001	ankhita	884411110235	34	A+	Alive	LIVER
3002	aadhil	115588774469	22	AB+	Deceased	PANCREAS
3002	faiz	884455559612	44	AB+	Deceased	PANCREAS
3002	anees	333322228450	23	O+	Alive	KIDNEY

d. Organ Receiver

Reg_no	Name	Aadhar_id	age	blood_grp	date_of_registration	organ_required
3001	anirudh	514411110235	39	B+	2021-08-10	KIDNEY
3002	abraham	999933321456	30	A-	2021-09-24	KIDNEY
3003	ameya	111177778459	28	AB+	2021-12-23	LIVER

10.Program code

```
import mysql.connector as mc

#import random

import matplotlib.pyplot as plt

mydb1=mc.connect(host='localhost',user='root',passwd='devu1234',database='organ',charset='utf8')

mydb2=mc.connect(host='localhost',user='root',passwd='devu1234',database='blood_bank',charset='utf8')

mycursor2=mydb2.cursor()

mycursor1=mydb1.cursor()

print("WELCOME TO savealife.org")


def org_donor_data_collection():

    #ch=input("enter your category(blood/organ):")

    #if ch=="organ":

    while True:

        #reg_no=1

        name=input('enter your Name:')

        Aadhar_id=int(input('enter your Aadhar no.:'))

        age=int(input('enter your Age:'))
```

```
    blood_grp=input('enter your Blood Group:').upper()
    h=input('any history of hepatitis(yes/no):').lower()
    aids=input('any history of AIDS(yes/no):').lower()
    d=input('any history of Diabetes(yes/no):').lower()
    chl=input('any history of cholestrol(yes/no):').lower()
    canc=input('any history of cancer(yes/no)').lower()
    cal=input('any history of chronic alcoholism(yes/no):').lower()
    cd=input('are you a cardiac patient(yes/no):').lower()
    org=input('enter your organ for donation:').upper()
    sts=input('enter the status(alive/deceased):').title()
    if 'yes' in (h,aids,d,chl,canc,cal,cd):
        print('SORRY,YOU ARE INELIGIBLE FOR ORGAN DONATION!')
        ch=input('do you want to continue ?:')
        if ch in "noNONo":
            print('Thankyou!')
                #return
            menudrive()
        else:
            continue
    else:
        mycursor1.execute("select max(Reg_no) from organ_donor") #gives a list
of tuple
```

```
        x=mycursor1.fetchall()
        reg_no=x[0][0]+1
        mycursor1.execute(f"insert into organ_donor
values({reg_no},'{name}','{Aadhar_id}',{age},'{blood_grp}','{sts}','{org}')")
        mydb1.commit()
        print('details registered successfully!')
        cho=input('do you want to register more?(yes/no):')

        if cho in "noNONo":
            print('Thankyou for registering')
            #return
            menudrive()
        else:
            org_donor_data_collection()
            #continue




def org_reciever_data_collection():
    name=input('enter your Name:')
```

```
    Aadhar_id=int(input('enter your Aadhar no.:'))
    age=int(input('enter your Age:'))
    blood_grp=input('enter your Blood Group:').upper()
    org=input('enter your required organ:').upper()


    dor=input('enter the date of registration(yy-mm-dd):')



    mycursor1.execute("select max(Reg_no) from organ_receiver") #gives a list of tuple
    x=mycursor1.fetchall()
    reg_no=x[0][0]+1
    mycursor1.execute(f"insert into organ_receiver values({reg_no},'{name}','{Aadhar_id}',{age},'{blood_grp}','{dor}','{org}')")
    mydb1.commit()
    print('details registered successfully!')
    cho=input('do you want to register more?(yes/no):')
            #reg_no+=1
            #mc.close()
    if cho in "noNONo":
                #break
        print('Thankyou for registering')
```

```
        #return
        menudrive()
    else:
        org_reciever_data_collection()


def org_access_information():
    #cnt_bg=[]
    #b_o=input("enter your category for accessing information(blood/organ):")
    #if b_o.lower()=='organ':
    mycursor1.execute("select organ,count(*) from organ_donor group by organ")
    rec_o=mycursor1.fetchall()
    #for i in rec:
    cnt_org=dict(rec_o)
    orgn=[]
    cnt=[]
    for i,j in cnt_org.items():
        orgn.append(i)
        cnt.append(j)
        #print(bg)
        #print(cnt)
```

```
    slices=cnt
    org_pie=orgn
    cols=['b','g','r','c','m','y','cyan','lawngreen']
    plt.pie(slices,labels=org_pie,colors=cols,startangle=90,autopct="%1.1f%%")
    plt.title("Organ availability")
    plt.show()
    return


def org_donor_deletion():
    del_reg=int(input('enter the register number of the record to be deleted:'))
    del_aad=input('enter the aadhar number:')
    #query="delete from blood_donor where Aadhar_id=del_aad"
    mycursor1.execute(f"delete from organ_donor where Aadhar_id='{del_aad}'")
    mydb1.commit()
    print("record deleted")


def organ_donor_updation():
    upd_reg_no=int(input('enter your registration number for updation of data:'))
    new_age=int(input('enter new age:'))
    new_org=input('enter new organ for updation:').upper()
```

```
    stat=input('enter status(alive/deceased):').title()
    mycursor1.execute(f"update organ_donor set
Age={new_age},Organ='{new_org}',Status='{stat}' where
Reg_no={upd_reg_no}")
    mydb1.commit()
    print("details updated successfully")


def organ_search():
    #age=int(input("enter your required age to see the data:"
    mycursor1.execute("select age,count(*) from organ_donor group by age")
    rec1=mycursor1.fetchall()
    mycursor1.execute("select organ,count(*) from organ_donor group by organ")
    rec2=mycursor1.fetchall()
    print("Here's the demographic trends related to age ")
    for i in rec1:
        print(i)


    print("Here's the demographic trends related to prgans ")
    for j in rec2:
        print(j)


def org_matching():
```

```
    reg=int(input("enter your registration number"))
    mycursor1.execute(f"select blood_grp,organ_required from organ_receiver where Reg_no={reg}")
    bg1=mycursor1.fetchall()
    #mycursor.execute(f"select organ from organ_receiver where Reg_no={reg}")



    if bg1[0][0].upper()=="A+":
        mycursor1.execute("select Reg_no,Name,age,organ from organ_donor where blood_group in ('a+','A+','a-','A-','o+','O+','o-','O-')")
        a1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in a1:
            if i[3]==bg1[0][1]:


                print(i)


        #print("Here is a list of the compatible pairs")
        #for line in a1:
            #print(line)
```

```
    elif bg1[0][0].upper()=="A-":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ('a-','A-','o-','O-')")
        b1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in b1:
            if i[3]==bg1[0][1]:
                print(i)

    elif bg1[0][0].upper()=="B+":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ('b+','B+','b-','B-','o+','O+','o-','O-')")
        c1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in c1:
            if i[3]==bg1[0][1]:
                print(i)

    elif bg1[0][0].upper()=="B-":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ('b-','B-','o-','O-')")
        d1=mycursor1.fetchall()
```

```
        print("Here is a list of the compatible pairs")
        for i in d1:
            if i[3]==bg1[0][1]:
                print(i)


    elif bg1[0][0].upper()=="AB+":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor")
        e1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in e1:
            if i[3]==bg1[0][1]:
                print(i)


    elif bg1[0][0].upper()=="AB-":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ('a-','A-','o-','O-','b-','B-','ab-','AB-')")
        f1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in f1:
            if i[3]==bg1[0][1]:
                print(i)
```

```
    elif bg1[0][0].upper()=="O-":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ('o-','O-')")
        g1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in g1:
            if i[3]==bg1[0][1]:
                print(i)



    elif bg1[0][0].upper()=="O+":
        mycursor1.execute("select Reg_no,Name,Age,Organ from organ_donor
where blood_group in ['o+','O+','o-','O-']")
        h1=mycursor1.fetchall()
        print("Here is a list of the compatible pairs")
        for i in h1:
            if i[3]==bg1[0][1]:
                print(i)


    ch=input("do you want to continue?")
```

```
    if ch in "noNONo":
        print("thankyou!!")
        #return
        menudrive()
    else:
        org_matching()


def organ_receiver_updation():
    upd_reg_no=int(input('enter your registration number for updation of data:'))
    new_age=int(input('enter new age:'))
    new_org=input('enter new organ for updation:').upper()
    #stat=input('enter status(alive/deceased):')
    mycursor1.execute(f"update organ_receiver set
Age={new_age},organ_required='{new_org}' where Reg_no={upd_reg_no}")
    mydb1.commit()
    print("details updated successfully")


def org_receiver_deletion():
    del_reg=int(input('enter the register number of the record to be deleted:'))
    del_aad=input('enter the aadhar number:')
    #query="delete from blood_donor where Aadhar_id=del_aad"
    mycursor1.execute(f"delete from organ_receiver where Aadhar_id='{del_aad}'")
```

```
    mydb1.commit()
    print("record deleted")



def blood_search():
    #age=int(input("enter your required age to see the data:"
    mycursor2.execute("select age,count(*) from blood_donor group by Age")
    rec1=mycursor2.fetchall()
    mycursor2.execute("select Blood_grp,count(*) from blood_donor group by
Blood_grp")
    rec2=mycursor2.fetchall()
    print("Here's the demographic trends related to age ")
    for i in rec1:
        print(i)


    print("Here's the demographic trends related to blood_group ")
    for j in rec2:
        print(j)
```

```
def blood_donor_data_collection():
    #ch=input("enter your category(blood/organ):")
    #if ch=="blood":
    while True:
        #reg_no=1
        name=input('enter your Name:')
        Aadhar_id=int(input('enter your Aadhar no.:'))
        age=int(input('enter your Age:'))
        blood_grp=input('enter your Blood Group:').upper()
        h=input('any history of hepatitis(yes/no):').lower()
        aids=input('any history of AIDS(yes/no):').lower()
        d=input('any history of Diabetes(yes/no):').lower()
        chl=input('any history of cholestrol(yes/no):').lower()
        canc=input('any history of cancer(yes/no)').lower()
        cal=input('any history of chronic alcoholism(yes/no):').lower()
        cd=input('are you a cardiac patient(yes/no):').lower()
        if 'yes' in (h,aids,d,chl,canc,cal,cd):
            print('SORRY,YOU ARE INELIGIBLE FOR BLOOD DONATION!')
            ch=input('do you want to continue ?:')
            if ch in "noNONo":
```

```
            #break
            print('Thankyou!!')
            return
        else:
            mycursor2.execute("select max(Reg_no) from blood_donor") #gives a list
of tuple
            x=mycursor2.fetchall()
            reg_no=x[0][0]+1
            mycursor2.execute(f"insert into blood_donor
values({reg_no},'{name}',{Aadhar_id},{age},'{blood_grp}')")
            mydb2.commit()
            print('details registered successfully!')
            cho=input('do you want to register more?(yes/no):')
            #reg_no+=1
            #mc.close()
            if cho in "noNONo":
                #break
                print('Thankyou for registering')
                #return
                menudrive()
            else:
                blood_donor_data_collection()
```

```
            #copyright



def blood_reciever_data_collection():
    #ch=input("enter your category(blood/organ):")


    #if ch=="blood":
    while True:
        #reg_no=1
        name=input('enter your Name:')
        Aadhar_id=input('enter your Aadhar no.:')
        age=int(input('enter your Age:'))
        blood_grp=input('enter your Blood Group:').upper()
        dor=input('enter the date of registration(yy/mm/dd):')
        while True:
            mycursor2.execute("select max(Reg_no) from blood_receiver") #gives a
list of tuple
            x=mycursor2.fetchall()
            reg_no=x[0][0]+1
            mycursor2.execute(f"insert into blood_receiver
values({reg_no},'{name}','{Aadhar_id}',{age},'{blood_grp}','{dor}')")
```

```
            mydb2.commit()
            print('details registered successfully!')
            cho=input('do you want to register more?(yes/no):')
            #reg_no+=1
            #mc.close()
            if cho in "noNONo":
                #break
                print('Thankyou for registering')
                #return
                menudrive()
            else:
                blood_reciever_data_collection()



def blood_access_information():
    #cnt_bg=[]
    #b_o=input("enter your category for accessing information(blood/organ):")
    #if b_o.lower()=='blood':
    mycursor2.execute("select blood_grp,count(*) from blood_donor group by
blood_grp")
    rec=mycursor2.fetchall()
    #for i in rec:
```

```
    cnt_bg=dict(rec)
    bg=[]
    cnt=[]
    for i,j in cnt_bg.items():
        bg.append(i)
        cnt.append(j)
        #print(bg)
        #print(cnt)

    slices=cnt
    bg_pie=bg
    cols=['b','g','r','c','m','y','cyan','lawngreen']

plt.pie(slices,labels=bg_pie,colors=cols,startangle=90,shadow=True,autopct="%1.
1f%%")
    plt.title("blood bank")
    plt.show()

def blood_donor_updation():
    upd_reg_no=int(input('enter your registration number for updation of data:'))
    new_data=int(input('enter new data(you can only update your age):'))
```

```
    mycursor2.execute(f"update blood_donor set Age={new_data} where
Reg_no={upd_reg_no}")
    mydb2.commit()
    print("age updated successfully")



def blood_donor_deletion():
    del_reg=int(input('enter the register number of the record to be deleted:'))
    del_aad=input('enter the aadhar number:')
    #query="delete from blood_donor where Aadhar_id=del_aad"
    mycursor2.execute(f"delete from blood_donor where Aadhar_id='{del_aad}'")
    mydb2.commit()
    print("record deleted")



def blood_matching():
    reg=int(input("enter your registration number"))
    mycursor2.execute(f"select blood_grp from blood_receiver where
Reg_no={reg}")
    bg1=mycursor2.fetchall()
```

```
    if bg1[0][0].upper()=="A+":
        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
Blood_grp in ('a+','A+','a-','A-','o+','O+','o-','O-')")
        a=mycursor2.fetchall()
        print("Here is a list of the compatible pairs")
        for line in a:


            print(line)



    elif bg1[0][0].upper()=="A-":
        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ('a-','A-','o-','O-')")
        b=mycursor2.fetchall()
        print("Here is a list of the compatible pairs")
        for line in b:
            print(line)


    elif bg1[0][0].upper()=="B+":
        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ('b+','B+','b-','B-','o+','O+','o-','O-')")
```

```
        c=mycursor2.fetchall()
        print("Here is a list of the compatible pairs")
        for line in c:
            print(line)

    elif bg1[0][0].upper()=="B-":
        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ('b-','B-','o-','O-')")
        d=mycursor2.fetchall()
        print("Here is a list of the compatible pairs")
        for line in d:
            print(line)


    elif bg1[0][0].upper()=="AB+":
        mycursor2.execute("select Reg_no,Name,Age from blood_donor")
        e=mycursor2.fetchall()
        print("Here is a list of the compatible pairs")
        for line in e:
            print(line)

    elif bg1[0][0].upper()=="AB-":
```

```
        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ('a-','A-','o-','O-','b-','B-','ab-','AB-')")

        f=mycursor2.fetchall()

        print("Here is a list of the compatible pairs")

        for line in f:

            print(line)



    elif bg1[0][0].upper()=="O-":

        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ('o-','O-')")

        g=mycursor2.fetchall()

        print("Here is a list of the compatible pairs")

        for line in g:

            print(line)



    elif bg1[0][0].upper()=="O+":

        mycursor2.execute("select Reg_no,Name,Age from blood_donor where
blood_grp in ['o+','O+','o-','O-']")

        h=mycursor2.fetchall()

        print("Here is a list of the compatible pairs")
```

```
        for line in h:
            print(line)

    ch=input("do you want to continue?")
    if ch in "noNONo":
        print("thankyou!!")
        #return
        menudrive()
    else:
        blood_matching()



def blood__receiver_updation():
    upd_reg_no=int(input('enter your registration number for updation of data:'))
    new_data=int(input('enter new data(you can only update your age):'))
    mycursor2.execute(f"update blood_receiver set Age={new_data} where
Reg_no={upd_reg_no}")
    mydb2.commit()
    print("age updated successfully")


def blood_receiver_deletion():
    del_reg=int(input('enter the register number of the record to be deleted:'))
```

```
    del_aad=input('enter the aadhar number:')
    #query="delete from blood_donor where Aadhar_id=del_aad"
    mycursor2.execute(f"delete from blood_receiver where Aadhar_id='{del_aad}'")
    mydb2.commit()
    print("record deleted")



def breakout():
    #while True:
    print("**************************************")
        #break
    return



def menudrive():
    print("1.enter the site")
    print("2.exit the site")
    choi=int(input("enter your choice"))
    if choi==1:
        ch=input("enter your category(blood/organ):")
        if ch.lower()=="blood":
```

```
dr=input("donor or receiver?(d/r)")
if dr.lower()=="d":
    while True:
        print("1. Registration")
        print("2. Delete your data")
        print("3. Change your existing information")
        print("4. See demographic trends")
        #print("4.Exit from the program")
        opt=int(input("enter your choice:"))
        if opt==1:
                blood_donor_data_collection()
                menudrive()
        elif opt==2:
                blood_donor_deletion()
                menudrive()
        elif opt==3:
                blood_donor_updation()
                menudrive()
        elif opt==4:
            blood_search()
            menudrive()
```

```
            else:
                print("invalid choice!!")
                menudriven()



        elif dr.lower()=="r":
            while True:
                print("1.Registration")
                print("2.Access information regarding availablity of various blood
groups")
                print("3.update your existing details")
                print("4.Delete your data")
                print("5.Finding your match")
                print("6.See demographic trends")
                opt=int(input("enter your choice:"))
                if opt==1:
                    blood_reciever_data_collection()
                    menudrive()
                elif opt==2:
                    blood_access_information()
                    menudrive()
                elif opt==3:
```

```
            blood__receiver_updation()
            menudrive()
        elif opt==4:
            blood_receiver_deletion()
            menudrive()
        elif opt==5:
            blood_matching()
            menudrive()
        elif opt==6:
            blood_search()
            menudrive()
        else:
            print("invalid choice!!")
            menudriven()



if ch.lower()=="organ":
    dr=input("donor or receiver?(d/r)")
    if dr.lower()=="d":
        while True:
```

```
print("1. Registration")
print("2. Delete your data")
print("3. Change your existing information")
print("4. See demographic trends")
opt=int(input("enter your choice:"))
if opt==1:
    org_donor_data_collection()
    menudrive()
elif opt==2:
    org_donor_deletion()
    menudrive()
elif opt==3:
    organ_donor_updation()
    menudrive()
elif opt==4:
    organ_search()
    menudrive()
else:
    print("invalid choice!!")
    menudriven()
```

```
elif dr.lower()=="r":
    while True:
        print("1.Registration")
        print("2.Access information regarding availablity of various organs")
        print("3.update your existing details")
        print("4.Delete your data")
        print("5.Finding your match")
        print("6.See demographic trends")
        #print("6.Quit from the program")
        opt=int(input("enter your choice:"))
        if opt==1:
            org_reciever_data_collection()
            menudrive()
        elif opt==2:
            org_access_information()
            menudrive()
        elif opt==3:
            organ_receiver_updation()
            menudrive()
```

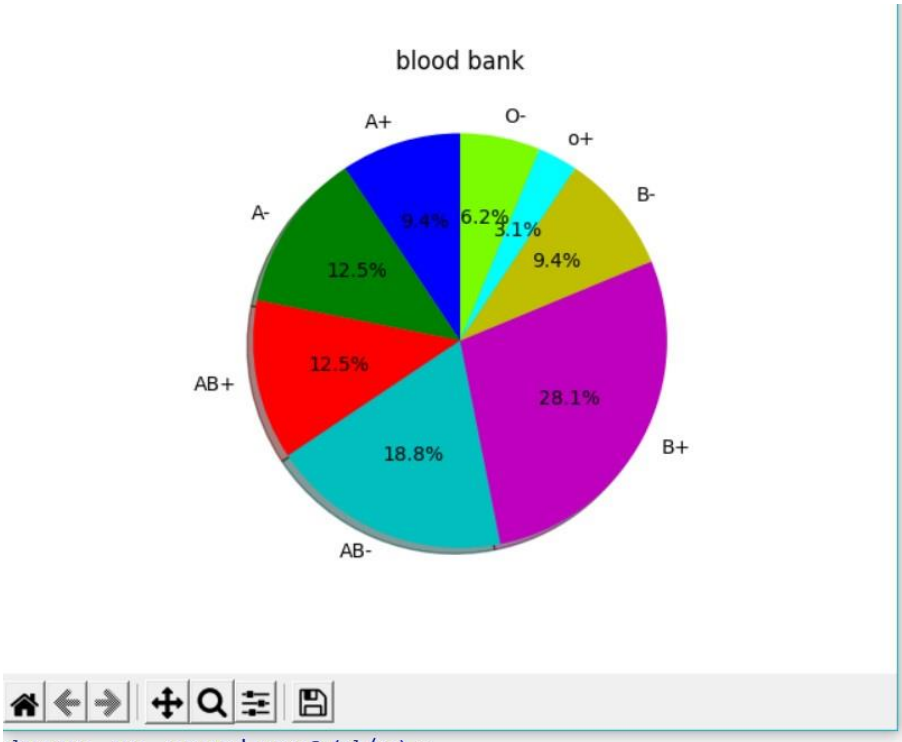
```
            elif opt==4:
                org_receiver_deletion()
                menudrive()
            elif opt==5:
                org_matching()
                menudrive()
            elif opt==6:
                organ_search()
                menudrive()
            else:
                print("invalid choice!!")
                menudriven()

    elif choi==2:
        print("THANKYOU FOR VISITING OUR SITE")
        breakout()
        #return
    else:
        print("invalid choice")
        menudriven()
menudrive()
```

11.Output screenshots

```
enter your category(blood/organ):blood
donor or receiver?(d/r)d
1. Registration
2. Delete your data
3. Change your existing information
4. See demographic trends
enter your choice:2
enter the register number of the record to be deleted:10
enter the aadhar number:991124753214
record deleted
1.enter the site
2.exit the site
enter your choice
```

```
WELCOME TO savealife.org
1.enter the site
2.exit the site
enter your choice1
enter your category(blood/organ):blood
donor or receiver?(d/r)d
1. Registration
2. Delete your data
3. Change your existing information
4. See demographic trends
enter your choice:1
enter your Name:preethi
enter your Aadhar no.:999977771254
enter your Age:36
enter your Blood Group:ab-
any history of hepatitis(yes/no):no
any history of AIDS(yes/no):no
any history of Diabetes(yes/no):no
any history of cholestrol(yes/no):no
any history of cancer(yes/no)no
any history of chronic alcoholism(yes/no):no
are you a cardiac patient(yes/no):no
details registered successfully!
do you want to register more?(yes/no):no
Thankyou for registering
```




```
donor or receiver?(d/r)r
1.Registration
2.Access information regarding availablity of various blood groups
3.update your existing details
4.Delete your data
5.Finding your match
6.See demographic trends
enter your choice:2
```

```
enter your category(blood/organ):organ
donor or receiver?(d/r)d
1. Registration
2. Delete your data
3. Change your existing information
4. See demographic trends
enter your choice:4
Here's the demographic trends related to age
(22, 1)
(23, 1)
(34, 1)
(39, 1)
(44, 1)
Here's the demographic trends related to prgans
('BONES', 1)
('KIDNEY', 1)
('LIVER', 1)
('PANCREAS', 2)
1.enter the site
2.exit the site
```

```
enter your category(blood/organ):organ
donor or receiver?(d/r)r
1.Registration
2.Access information regarding availablity of various organs
3.update your existing details
4.Delete your data
5.Finding your match
6.See demographic trends
enter your choice:5
enter your registration number3001
Here is a list of the compatible pairs
(3002, 'anees', 23, 'KIDNEY')
do you want to continue?no
thankyou!!
1.enter the site
2.exit the site
```

```
enter your category(blood/organ):organ
donor or receiver?(d/r)r
1.Registration
2.Access information regarding availablity of various organs
3.update your existing details
4.Delete your data
5.Finding your match
6.See demographic trends
enter your choice:3
enter your registration number for updation of data:3002
enter new age:32
enter new organ for updation:heart
details updated successfully
```

```
WELCOME TO savealife.org
1.enter the site
2.exit the site
enter your choice2
THANKYOU FOR VISITING OUR SITE
**************************************
```

12.Bibliography

Books:

- NCERT Computer science textbook for class 12
- NCERT Computer science textbook for class 11
- NCERT Informatic practices textbook for class 12
- Computer Science with Python by Preeti Arora

Websites:

- indianexpress.com/article/lifestyle/health/organ-donation-day-how-organic-donation-has-changed-amid-pandemic-coronavirus-7451886/
- https://www.organdonor.gov/learn/organ-donation-statistics