Code:

import pandas as pd

s = []

f=[]

m=[]

hr=[]

bp=[]

sl=[]

m\_age=[]

f\_age=[]

def patient(patient\_name, gender, age, heart\_rate, blood\_pressure, sugar\_level):

details = {

'patient\_name': patient\_name,

'gender': gender,

'age': age,

'heart\_rate': heart\_rate,

'blood\_pressure': blood\_pressure,

'sugar\_level': sugar\_level

}

s.append(details)

if gender=="female":

f.append(gender)

else:

m.append(gender)

n = int(input("Enter the number of patients: "))

for i in range(n):

patient\_name = input("Enter patient name: ")

gender = input("Enter gender: ")

age = int(input("Enter age: "))

heart\_rate = int(input("Enter heart rate: "))

blood\_pressure = int(input("Enter blood pressure: "))

sugar\_level = int(input("Enter sugar level: "))

patient(patient\_name, gender, age, heart\_rate, blood\_pressure, sugar\_level)

for i in range(n):

hr.append(s[i]['heart\_rate'])

bp.append(s[i]['blood\_pressure'])

sl.append(s[i]['sugar\_level'])

for j in range(n):

m\_age.append(s[j]['age'])

f\_age.append(s[j]['age'])

sorted\_s = sorted(s,key=lambda x: x['patient\_name'])

for i in sorted\_s:

print(i['patient\_name'])

# Display patient details in tabular format

print("patient\_name\tgender\tage\theart\_rate\tblood\_pressure\tsugar\_levels")

for details in s:

print(f"{details['patient\_name']}\t\t{details['gender']}\t{details['age']}\t{details['heart\_rate']}\t\t{details['blood\_pressure']}\t\t{details['sugar\_level']}")

df=pd.DataFrame(s)

print(df)

print({len(f)})

print({len(m)})

print(sorted\_s)

print(max(hr))

print(min(hr))

print(max(bp))

print(min(bp))

print(max(sl))

print(min(sl))

print(max(m\_age))

print(min(f\_age))

output:

Enter the number of patients: 5

Enter patient name: keerthi

Enter gender: female

Enter age: 43

Enter heart rate: 76

Enter blood pressure: 120

Enter sugar level: 130

Enter patient name: uma

Enter gender: female

Enter age: 23

Enter heart rate: 67

Enter blood pressure: 111

Enter sugar level: 120

Enter patient name: akki

Enter gender: male

Enter age: 34

Enter heart rate: 100

Enter blood pressure: 63

Enter sugar level: 120

Enter patient name: indhu

Enter gender: male

Enter age: 34

Enter heart rate: 99

Enter blood pressure: 135

Enter sugar level: 373

Enter patient name: sammi

Enter gender: female

Enter age: 19

Enter heart rate: 78

Enter blood pressure: 110

Enter sugar level: 120

akki

indhu

keerthi

sammi

uma

patient\_name gender age heart\_rate blood\_pressure sugar\_levels

keerthi female 43 76 120 130

uma female 23 67 111 120

akki male 34 100 63 120

indhu male 34 99 135 373

sammi female 19 78 110 120

patient\_name gender age heart\_rate blood\_pressure sugar\_level

0 keerthi female 43 76 120 130

1 uma female 23 67 111 120

2 akki male 34 100 63 120

3 indhu male 34 99 135 373

4 sammi female 19 78 110 120

{3}

{2}

[{'patient\_name': 'akki', 'gender': 'male', 'age': 34, 'heart\_rate': 100, 'blood\_pressure': 63, 'sugar\_level': 120}, {'patient\_name': 'indhu', 'gender': 'male', 'age': 34, 'heart\_rate': 99, 'blood\_pressure': 135, 'sugar\_level': 373}, {'patient\_name': 'keerthi', 'gender': 'female', 'age': 43, 'heart\_rate': 76, 'blood\_pressure': 120, 'sugar\_level': 130}, {'patient\_name': 'sammi', 'gender': 'female', 'age': 19, 'heart\_rate': 78, 'blood\_pressure': 110, 'sugar\_level': 120}, {'patient\_name': 'uma', 'gender': 'female', 'age': 23, 'heart\_rate': 67, 'blood\_pressure': 111, 'sugar\_level': 120}]

100

67

135

63

373

120

43

19