

Code9

November 4, 2023

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[2]: #define patient class
class Patient:
    def __init__(self, name, age, gender, blood_pressure, temperature):
        self.name = name
        self.age = age
        self.gender = gender
        self.blood_pressure = blood_pressure
        self.temperature = temperature

    def display_patient_info(self):
        print(f"Name: {self.name}")
        print(f"Age: {self.age}")
        print(f"Gender: {self.gender}")
        print(f"Blood Pressure: {self.blood_pressure[0]} / {self.
↪blood_pressure[1]}")
        print(f"Temperature: {self.temperature}\n")

    def is_hypertensive(self):
        systolic, diastolic = self.blood_pressure
        return systolic >= 140 or diastolic >= 90

    def is_feverish(self):
        return self.temperature >= 37.5

# Create two instances of patient
patient1 = Patient("John Doe", 45, "Male", (140, 85), 36.8)
patient2 = Patient("Jane Smith", 32, "Female", (130, 88), 37.6)

#print to display patient information and check for hypertension and fever
print("Patient 1 Information:")
patient1.display_patient_info()
print("Patient 2 Information:")
patient2.display_patient_info()

print("Patient 1 is Hypertensive:", patient1.is_hypertensive())
print("Patient 1 is Feverish:", patient1.is_feverish())
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print("Patient 2 is Hypertensive:", patient2.is_hypertensive())  
print("Patient 2 is Feverish:", patient2.is_feverish())
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Patient 1 Information:

Name: John Doe

Age: 45

Gender: Male

Blood Pressure: 140 / 85

Temperature: 36.8

Patient 2 Information:

Name: Jane Smith

Age: 32

Gender: Female

Blood Pressure: 130 / 88

Temperature: 37.6

Patient 1 is Hypertensive: True

Patient 1 is Feverish: False

Patient 2 is Hypertensive: False

Patient 2 is Feverish: True

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