 oop.py ×

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#COVID-19 Health Tracker Project (Console-based using OOP)

140

class CovidPatient: 1 usage

141

def __init__(self, name, age, status):

142

self.name = name

143

self.age = age

144

self.status = status # positive or negative

145

self.__temperature_record = []

146

self.__isolation_days = 0

147

148

def add_temperature(self, temp): 2 usages

149

if temp <= 0:

150

print("Invalid temperature.")

151

return

152

self.__temperature_record.append(temp)

153

print(f"Temperature {temp}°F recorded successfully")

154

if temp > 100:

155

print("Alert: High temperature detected!")

156

157

def increment_isolation_day(self): 1 usage

158

self.__isolation_days += 1

159

print(f" Isolation Day: {self.__isolation_days}")

160

if self.__isolation_days >= 14:

161

print(" Recovered! Patient has completed 14 days of isolation.")

162

163

def report(self): 1 usage

164

print("\n --- Patient Report ---")

165

print(" Name :", self.name)

166

print(" Age :", self.age)

167

print(" Status :", self.status)

168

print(" Isolation Days:", self.__isolation_days)

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class CovidPatient: 1 usage

163

def report(self): 1 usage

168

print(" Isolation Days:", self.__isolation_days)

169

print(" Temp Records :", len(self.__temperature_record))

170

171

if self.__temperature_record:

172

print(" Latest Temp :", self.__temperature_record[-1])

173

else:

174

print(" No temperature records yet.")

175

print("-----\n")

176

Create a patient object

177

patient1 = CovidPatient(name: "Uthralakshmi", age: 21, status: "Positive")

178

179

Add temperature records

180

patient1.add_temperature(98.6)

181

patient1.add_temperature(101.2)

182

183

Increment isolation days

184

for day in range(1, 16): # Simulate 15 days

185

patient1.increment_isolation_day()

186

187

Show final report

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patient1.report()

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D:\PycharmProjects\Python-Uthra\.venv\Scripts\python.exe D:\PycharmProjects\Python-Uthra\oob.py
Temperature 98.6°F recorded successfully
Temperature 101.2°F recorded successfully
Alert: High temperature detected!
Isolation Day: 1
Isolation Day: 2
Isolation Day: 3
Isolation Day: 4
Isolation Day: 5
Isolation Day: 6
Isolation Day: 7
Isolation Day: 8
Isolation Day: 9
Isolation Day: 10
Isolation Day: 11
Isolation Day: 12
Isolation Day: 13
Isolation Day: 14
Recovered! Patient has completed 14 days of isolation.
Isolation Day: 15
Recovered! Patient has completed 14 days of isolation.

--- Patient Report ---
Name : Uthralakshmi
Age : 21
Status : Positive
Isolation Days: 15
Temp Records : 2
Latest Temp : 101.2

