OOP

קוד לדוגמאhttps://github.com/pythonai250824/18.05.2025

בנה את המחלקה שלפניך

OOP Exercise: Encapsulation with Customer Class

Goal:

Create a Python class that demonstrates encapsulation using:

- __init__
 __str__
 __repr__
 __nepr__
 __eproperty getter
 __eproperty.setter
- Instructions:
- 1. Create a class called customer.
- 2. The class should have the following attributes:
 - name (public)
 - email (public)
 - __id (private using __)
- 3. Implement the following:
 - __init__ : initialize name , email , and __id
 - @property for reading the value of __id
 - @id.setter that allows changing the ID only if it's a positive integer
 - __str__: return a readable string like:
 - "Customer <name> (ID: <id>) Email: <email>"
 - "Customer(name='<name>', email='<email>', id=<id>)"

- 4. At the bottom of your script:
 - Create two instances of the class:

```
c1 = Customer("Alice", "alice@example.com", 101)
c2 = Customer("Bob", "bob@example.com", 202)
```

- Print both using print() and repr()
- Try setting an invalid ID like c1.id = -5 and confirm that it is rejected

Example Output:

```
print(c1)  # Customer Alice (ID: 101) - Email: alice@example.com
print(repr(c2))  # Customer(name='Bob', email='bob@example.com', id=202)
```

pythonai250824+HWOOP2@gmail.com

בהצלחה!