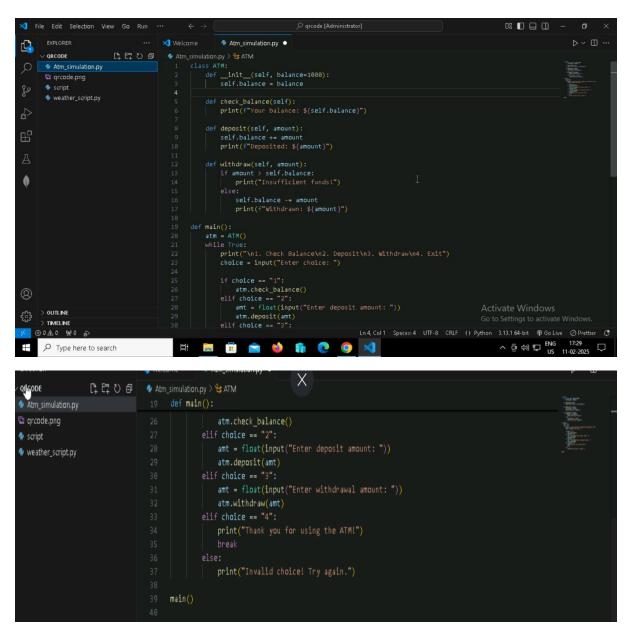
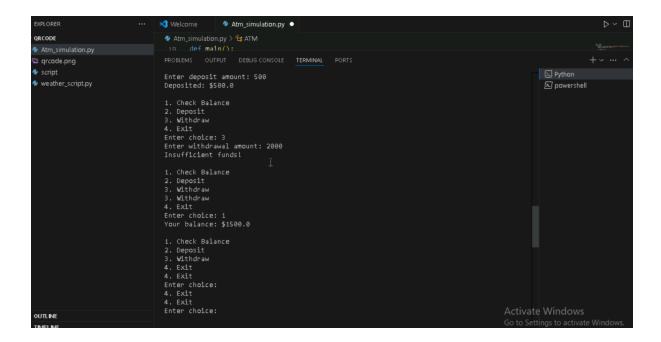
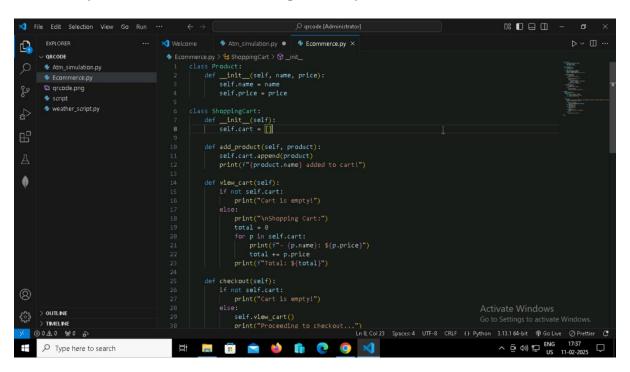
PYTHON CASE STUDIES

Case Study 1: ATM Simulation System Program





Case study 2 Ecommerce Order Management System



```
♠ Atm_simulation.py ● ♠ Ecommerce.py ×
       ORCODE
                                              def main():
       rcode.png
                                                          main():
cart = shoppingCart()
products = {
    "1": Product("Laptop", 1989),
    "2": Product("Headphones", 159),
    "3": Product("Mouse", 59),
                                                          while True:

print("\n1. Add Laptop ($1800)\n2. Add Headphones ($150 →\n3. Add Mouse ($50)\n4. View Cart

choice = input("Enter choice: ")
0
                                                               cart.add_products;

cart.add_product(products[choice])

elif choice == "A":

| cart.view_cart()

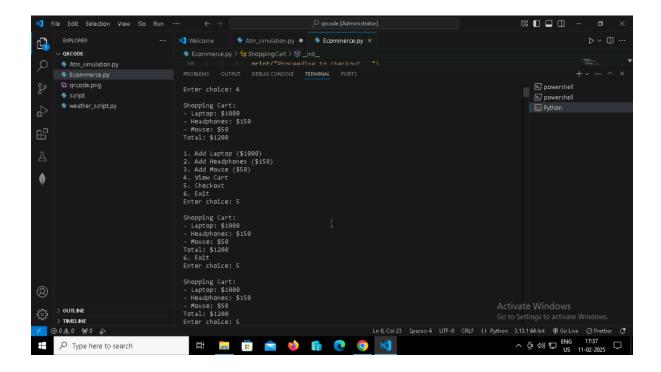
elif choice == "5":

cart.checkout()

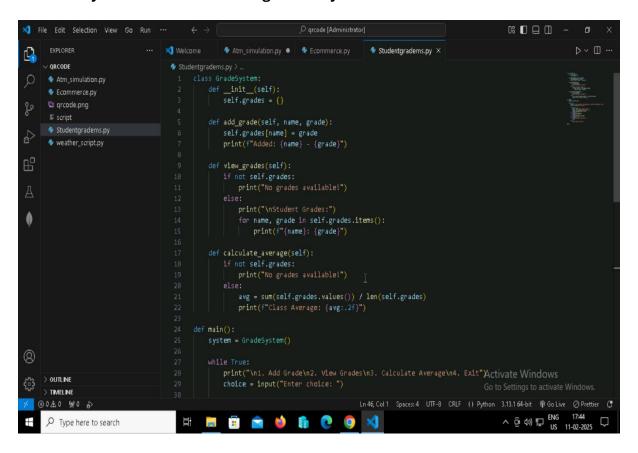
break.
                                                               elif choice == "6":
    print("Thank you for shopping!")
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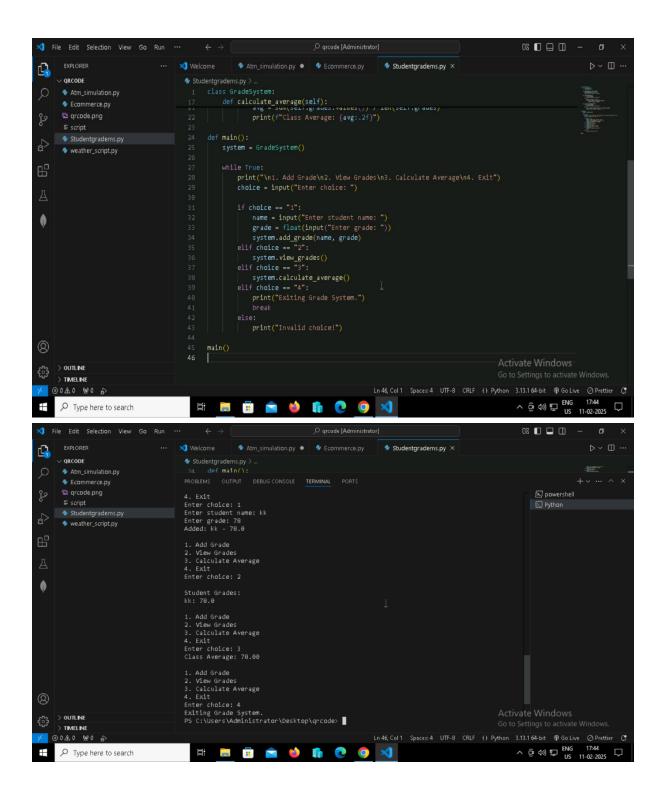
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Case study 3 Student Grade Management System





Case Study 4 Hospital patient Management system

```
0: • • •
                                                                                                                                                     ♣ Hospitalpatientms.py ×
        ∨ ORCODE
                                                         class Hospital:
    def __init__(self):
        self.patients = {}
        Atm_simulation.py
         Ecommerce.py
                                                                def add_patient(self, id, name, age, disease):
    self.patients[id] = {"Name": name, "Age": age, "Disease": disease}
    print(f"Patient {name} added!")
         Studentgradems.py
                                                                     if not self.patients:
    print("No patients registered!")
                                                                         e:
print("\nPatient Records:")
for id, details in self.patients.items():
    print(f"ID: {id} - (details)")
 .
                                                               def main():
                                                                hospital = Hospital()
                                                                while True:

print("\n1. Add Patient\n2. View Patients\n3. Remove Patient\n4. Exit*\(\mathbb{Z}\)\(\text{ctivate Windows choice = input("Enter choice: ")}\)

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