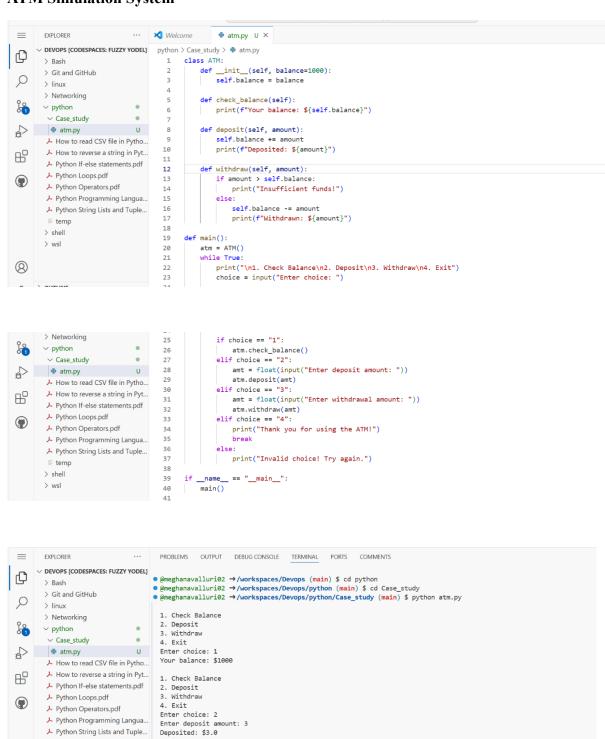
CASE STUDY:

1. ATM Simulation System



1. Check Balance

Enter choice: 4

Thank you for using the ATM!

@meghanavalluri02 →/workspaces/Devops/python/Case_study (main) \$

Deposit
 Withdraw
 Exit

> shell

> OUTLINE

(2)

563

2. E-commerce Order Management

```
✓ DEVOPS [CODESPACES: FUZZY YODEL]
python > Case_study > ♣ E-commerce.py
D
                                                 class Product:
        > Bash
                                                      def __init__(self, name, price):
        > Git and GitHub
0
                                                           self.name = name
        > linux
                                                           self.price = price
        > Networking
02

∨ python

                                                 class ShoppingCart:
         \vee Case_study
                                                      def __init__(self):
          atm.py
                                                           self.cart = []
      ♣ E-commerce.py
                                 U
                                                      def add product(self, product):

→ How to read CSV file in Pytho...

                                           10
品
                                                          self.cart.append(product)

→ How to reverse a string in Pyt...

                                           12
                                                           print(f"{product.name} added to cart!")
        Python If-else statements.pdf
13
        Python Loops.pdf
                                                      def view_cart(self):
         Python Operators.pdf
                                           15
                                                           if not self.cart:
         Python Programming Langua...
                                           16
                                                               print("Cart is empty!")
         > Python String Lists and Tuple...
                                                                print("\nShopping Cart:")
          ≡ temp
                                           19
                                                                total = 0
        > shell
                                                                for p in self.cart:
                                           20
        > wsl
                                                                  print(f"- {p.name}: ${p.price}")
(8)
                                           22
                                                                     total += p.price
                                           23
                                                                print(f"Total: ${total}")
        > Git and GitHub
Q
                                          26
                                                         if not self.cart:
       > linux
                                          27
                                                            print("Cart is empty!")
        > Networking
                                          28
                                                          else:
       ∨ python
                                                              self.view cart()
                                          29

∨ Case study

                                                             print("Proceeding to checkout...")
        atm.py
                                 U
                                          31
        ♦ E-commerce.py
                                                def main():
                               U
                                          33
                                                    cart = ShoppingCart()
8
       How to read CSV file in Pvtho...
                                          34
                                                    products = {
        How to reverse a string in Pyt...
                                                         "1": Product("Laptop", 1000),
       Python If-else statements.pdf
                                                         "2": Product("Headphones", 150),
        Python Loops.pdf
                                                         "3": Product("Mouse", 50),
        Python Operators.pdf
                                          38
        ▶ Python Programming Langua...
                                          39
        {\color{red} \blacktriangleright} Python String Lists and Tuple...
                                                         print("\n1. Add Laptop ($1000)\n2. Add Headphones ($150)\n3. Add Mouse ($50)\n4. View Cart\n5. Checke
                                          41
         ≡ temp
                                                         choice = input("Enter choice: ")
        > shell
                                          43
        > wsl
                                                         if choice in products:
                                          44
(8)
                                          45
                                                              cart.add_product(products[choice])
                                                         elif choice == "4":
                                          46
So3 > OUTLINE
                                                            cart.view_cart()
0
                                                          elif choice == "5":
                                          49
                                                              cart.checkout()
        > Networking
                                          50
                                                              break
       ∨ python
                                                          elif choice == "6":

∨ Case_study

                                          52
                                                              print("Thank you for shopping!")
         atm.py
                                           53
                                                              break
        E-commerce.py
                                U
                                                             print("Invalid choice!")
                                          55

→ How to read CSV file in Pytho...

B
        ▶ How to reverse a string in Pyt...
                                                      _name__ == "__main__":
        Python If-else statements.pdf
58
                                                     main()
                            ··· PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
                                                                                                                                                           + v ... v x
     DEVOPS [CODESPACES: FUZZY YODEL]

> Bash

○ @meghanavalluri92 →/workspaces/Devops (main) $ cd python

○ @meghanavalluri92 →/workspaces/Devops/python (main) $ cd case_study

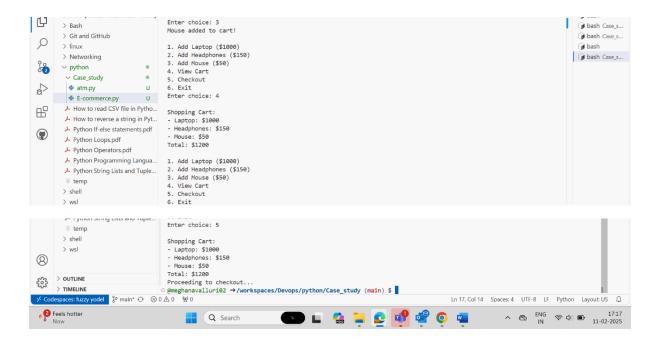
○ @meghanavalluri92 →/workspaces/Devops/python (Case_study (main) $ python E-commerce.py
                                                                                                                                                            Ф
                                                                                                                                                            bash Case_s...
                                                                                                                                                            Q

    bash

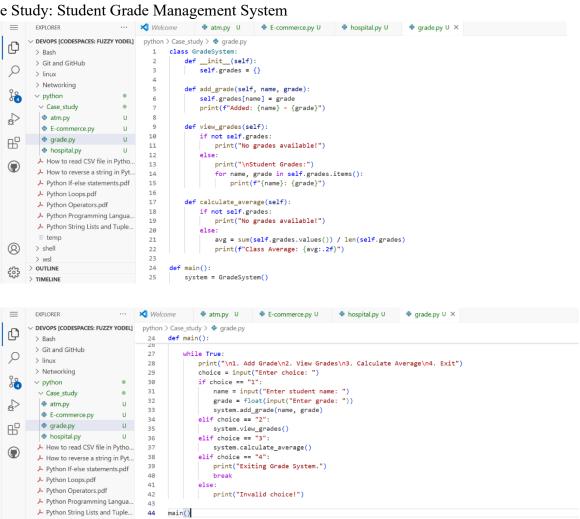
                                     1. Add Laptop ($1000)
                                                                                                                                                          bash Case_s...
       > Networking
                                     1. Add Laptop ($1990)
2. Add Headphones ($150)
3. Add Mouse ($50)
4. View Cart
       ∨ python
        atm.py
                                     6. Exit
Enter choice: 1
Laptop added to cart!
       ♣ E-commerce.pv
                             U
       ▶ How to read CSV file in Pytho...
B

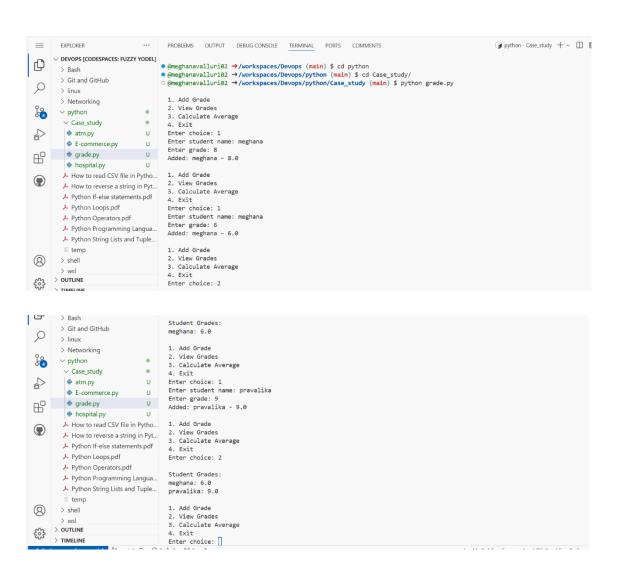
→ How to reverse a string in Pyt...

                                     1. Add Laptop ($1000)
      Python If-else statements.pdf
                                     2. Add Headphones ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
       Python Loops.pdf
       ▶ Python Operators.pdf
        Python Programming Langua...
        ▶ Python String Lists and Tuple...
                                     6. Exit
                                     Enter choice: 2
        ≡ temp
                                      Headphones added to cart!
       > shell
                                      1. Add Laptop ($1000)
                                     2. Add Headphones ($150)
(8)
                                     3. Add Mouse ($50)
                                     4. View Cart
5. Checkout
6. Exit
    > OUTLINE
555
      > TIMELINE
```



3. Case Study: Student Grade Management System





4. Case Study: Hospital Patient Management

```
\equiv
                                    💜 Welcome

∨ DEVOPS [CODESPACES: FUZZY YODEL] python > Case_study > ♦ hospital.py

Ð
                                           class Hospital:
       > Bash
                                                def __init__(self):
    self.patients = {}
       > Git and GitHub
Q
       > Networking
                                                def add_patient(self, id, name, age, disease):
3
       python
                                                    self.patients[id] = {"Name": name, "Age": age, "Disease": disease}
print(f"Patient (name) added!")

∨ Case study

A
       atm.py
                                                def view_patients(self):
         E-commerce.py
hospital.py
                                                    if not self.patients:
                                       11
                                                        print("No patients registered!")
        ▶ How to read CSV file in Pytho...
                                       12

→ How to reverse a string in Pyt...
                                                         print("\nPatient Records:")
for id, details in self.patients.items():
    print(f"ID: {id} - {details}")
       Python If-else statements.pdf
        Python Loops.pdf
        Python Operators.pdf
                                                 def remove patient(self, id):
        ▶ Python Programming Langua...
                                                    if id in self.patients:
        Python String Lists and Tuple...
                                                        del self.patients[id]
                                       19
                                                         print("Patient removed!")
       > shell
                                       21
(8)
       > wsl
                                                        print("Patient not found!")
                                             def main():
     > OUTLINE
565
                                                 hospital = Hospital()
     > TIMELINE
```

