```
class ATM:
    def __init__(self, balance=1000):
        self.balance = balance

def check_balance(self):
        print(f"Your balance: ${self.balance}")

def deposit(self, amount):
        self.balance += amount
        print(f"Deposited: ${amount}")

def withdraw(self, amount):
    if amount > self.balance:
        print("Insufficient funds!")
    else:
        self.balance -= amount
        print(f"Withdrawn: ${amount}")

def main():
    atm = ATM()
    while True:
        print("\nl. Check Balance\n2. Deposit\n3. Withdraw\n4. Exit")
        choice == input("Enter choice: ")

    if choice == "1":
        atm.lbeck_balance()
    elif choice == "2":
        amt = float(input("Enter deposit amount: "))
        atm.deposit(amt)
    elif choice == "3":
        amt = float(input("Enter withdrawal amount: "))
        atm.withdraw(amt)
    elif choice == "4":
        print("Thank you for using the ATM!")
        break
    else:
        print("Invalid choice! Try again.")

main()
```

```
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 1
Your balance: $1000

1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 2
Enter deposit amount: 200
Deposited: $200.0

1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 3
Enter withdrawal amount: 150
Withdrawn: $150.0

1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 3
Enter withdrawal amount: 150
Withdrawn: $150.0

1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 1
Your balance: $1050.0

1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter choice: 4
Thank you for using the ATM!
```

E-commerce Order Management

```
1. Add Laptop ($1000)
2. Add Baadphomes ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
6. Exit
Enter choice: 1
Laptop added to cart!
1. Add Laptop ($1000)
2. Add Headphomes ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
6. Exit
Enter choice: 3
Mouse added to cart!
1. Add Laptop ($1000)
2. Add Headphomes ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
6. Exit
Enter choice: 3
Mouse added to cart!
1. Add Laptop ($1000)
2. Add Headphomes ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
6. Exit
Enter choice: 4
Shopping Cart:
- Laptop: $1000
- Mouse: $50
Ictal: $1050
1. Add Laptop ($1000)
2. Add Headphomes ($150)
3. Add Mouse ($50)
4. View Cart
5. Checkout
6. Exit
Enter choice: 6
Enter
```

```
class GradeSystem:
    def __init__(self):
        self.grades = {}
    def add_grade(self, name, grade):
        self.grades[name] = grade
         print(f"Added: {name} - {grade}")
    def view_grades(self):
         if not self.grades:
             print("No grades available!")
             print("\nStudent Grades:")
              for name, grade in self.grades.items():
             print(f"{name}: {grade}")
    def calculate_average(self):
        if not self.grades:
             print("No grades available!")
             avg = sum(self.grades.values()) / len(self.grades)
             print(f"Class Average: {avg:.2f}")
def main():
    system = GradeSystem()
        print("\n1. Add Grade\n2. View Grades\n3. Calculate Average\n4. Exit")
         choice = input("Enter choice: ")
         if choice == "1":
         name = input("Enter student name: ")
  grade = float(input("Enter grade: "))
  system.add_grade(name, grade)
elif choice == "2":
         system.view_grades()
elif choice == "3":
         system.calculate_average()
elif choice == "4":
            print("Exiting Grade System.")
             print("Invalid choice!")
main()
```

```
1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 1
Enter student name: Ehargav
Enter grade: 10.0
Added: Ehargav - 10.0

1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 1
Enter student name: samim
Enter grade: 6.6
Added: samim - 6.6

1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 2

Student Grades:
Shargav: 10.0
samim: 6.6

1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 2

Student Grades:
Shargav: 10.0
samim: 6.6

1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 3
Class Average: 8.30

1. Add Grade
2. View Grades
3. Calculate Average
4. Exit
Enter choice: 4
Exit Enter choice: 4
Exit Enter choice: 4
Exiting Grade System.
```

Hospital Patient Management

```
1. Add Patient
2. View Patients
3. Remove Patient
4. Exit
Enter choice: 1
Enter Patient ID: 289238
Enter Name: Barath
Enter Age: 22
```

Enter Disease: Dengue
Patient Barath added!

1. Add Patient
2. View Patients
3. Remove Patient
4. Exit
Enter choice: 1
Enter Patient ID: 289740
Enter Name: Samim

Enter Patient ID: 205/40 Enter Name: Samim Enter Age: 21 Enter Disease: AIDS Patient Samim added!

1. Add Patient 2. View Patients 3. Remove Patient 4. Exit

Enter choice: 2

Patient Records: ID: 289238 - {'Name': 'Barath', 'Age': '22', 'Disease': 'Dengue'} ID: 289740 - {'Name': 'Samim', 'Age': '21', 'Disease': 'AIDS'}

1. Add Patient 2. View Patients 3. Remove Patient 4. Exit Enter choice: 4

Exiting Hospital System.