DSA PROJECT
Ketox Sytem's Algorithm

STEP 1: Create Client class
  DECLARE member variables: username, region, phone_number, zip_code

STEP 2: Define Registration() function
  PROMPT user to enter details: username, region, phone_number, zip_code
  STORE user inputs in respective member variables

STEP 3: Define Service_provider() function
  DISPLAY "Choose a service provider: 1. Secondary Schools, 2. Universities"
  GET user_input
  IF user_input is 1:
    CALL Secondary_Sch() function
  ELSE IF user_input is 2:
    CALL University() function
  ELSE:
    DISPLAY "Invalid option!"

STEP 4: Define Secondary_Sch() function
  DISPLAY "Choose a service: 1. O-level, 2. A-level"
  GET level
  IF level is 1:
    DISPLAY "Choose a school for O-level: ..."
    GET school
    DISPLAY "Enter a subject"
    GET subject
    DISPLAY course details and cost
    CALL Payment() function
  ELSE IF level is 2:
    DISPLAY "Choose a school for A-level: ..."
    GET school
    DISPLAY "Choose a combination"
    GET combination
    DISPLAY combination details and cost
    CALL Payment() function
  ELSE:
    DISPLAY "Invalid option!"

STEP 5: Define University() function
  DISPLAY "Choose a level: 1. Bachelors Degree, 2. Masters, 3. PHD"
  GET level
  IF level is 1:
    CALL UniversityBachelors() function
  ELSE IF level is 2:
    CALL UniversityMasters() function
  ELSE IF level is 3:
    CALL UniversityPhD() function
  ELSE:
    DISPLAY "Invalid option!"

STEP 6: Define UniversityBachelors(), UniversityMasters(), UniversityPhD() functions
    DISPLAY "Choose a University: 1. UDSM, 2. IFM, 3. NIT, 4. Unique Academy"
    GET university
    DISPLAY course details and cost for the selected university and level
    CALL Payment() function

STEP 7: Define Payment() function
    DISPLAY "Choose a method of payment"
    GET payment_method and pin_code
    DISPLAY "Payment successful"

STEP 8: Define main() function
    LOOP indefinitely:
        DISPLAY "Welcome to Ketox Application System"
        DISPLAY "Enter as a: 1. Client, 2. Service provider"
        GET input
        IF input is 1 (client):
            CREATE Client object
            CALL Registration() function
            CALL Service_provider() function
            DISPLAY "Do you want to continue? (y/n)"
            GET user_choice
            IF user_choice is 'n' or 'N':
                PROMPT user to provide comment and rating
                DISPLAY rating and thank user
                BREAK loop
        ELSE IF input is 2 (service provider):
            DISPLAY "View client information"
            PROMPT service provider to provide comment and rating
            DISPLAY rating and PAUSE
            BREAK loop
        ELSE:
            DISPLAY "Invalid option"