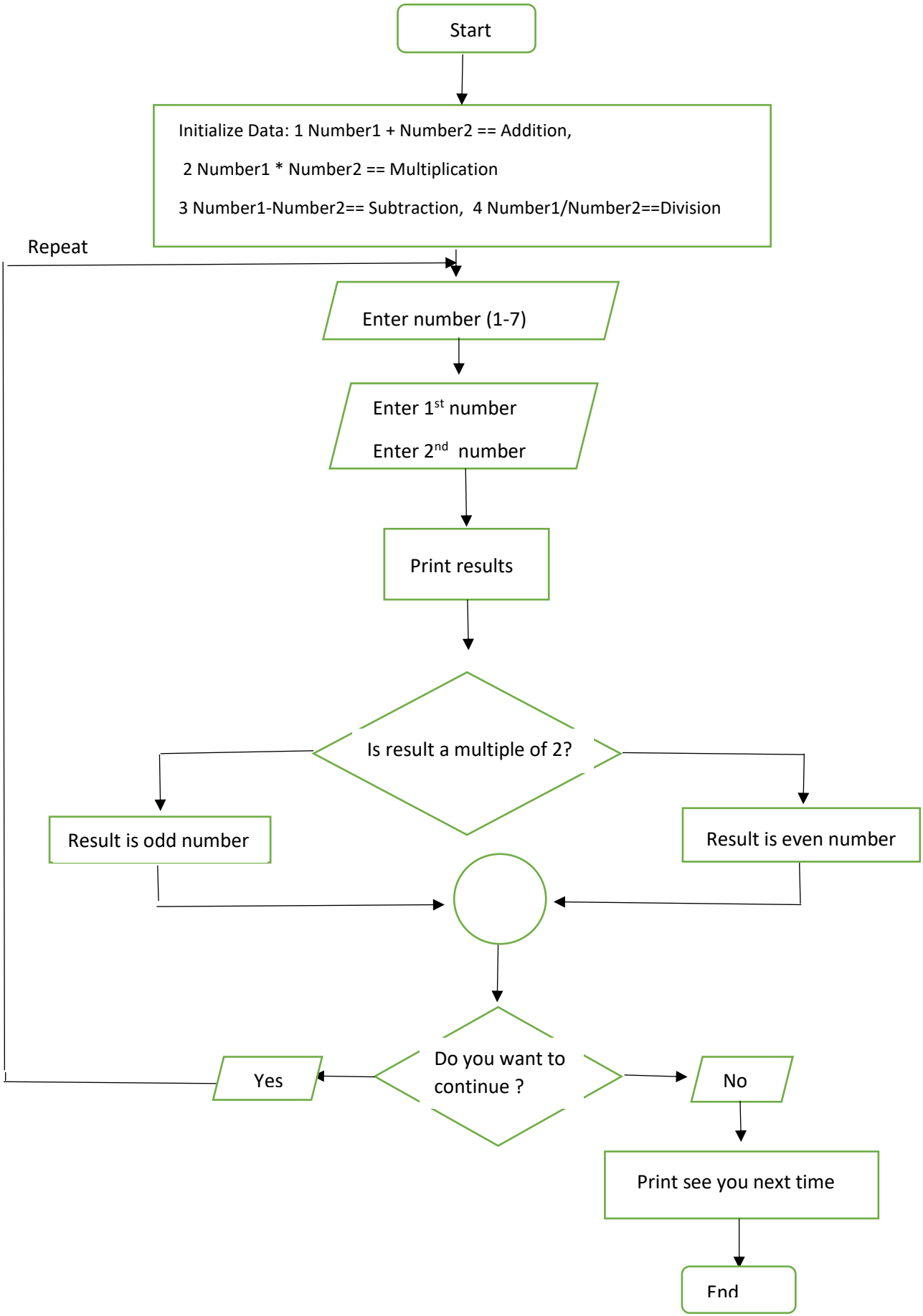
Mpho Luula 2013022641 Assignment 4 CCSC7900

Part A



Part Bz

```
def get_numbers():
    while True:

        num1 = float(input("Enter first number: "))
        num2 = float(input("Enter second number: "))
        return num1, num2

        print("Invalid input. Please enter valid numbers.")

def perform_operation(choice, num1, num2):
    if choice == "1":
        return num1 + num2
    elif choice == "2":
        return num1 - num2
    elif choice == "3":
        return num1 * num2
    elif choice == "4":
        return num1 / num2
    elif choice == "5":
        return num1 // num2
    elif choice == "6":
        return num1 % num2
    elif choice == "7":
        return num1 ** num2

def check_odd_even(result):
    if result % 2 == 0:
```

```
        return "Result is even"
    else:
        return "Result is odd"


while True:
    print("Menu:")
    print("1. Addition")
    print("2. Subtraction")
    print("3. Multiplication")
    print("4. Normal Division")
    print("5. Floor Division")
    print("6. Modula")
    print("7. Exponentiation")
    choice = input("Enter your choice (1-7): ")
    num1, num2 = get_numbers()
    result = perform_operation(choice, num1, num2)
    odd_even = check_odd_even(result)
    print(f"You entered: {num1} and {num2}")
    print(f"Result: {result}")
    print(odd_even)
    repeat = input("Do you want to perform another operation? (yes/no): ")
    if repeat.lower() != "yes":
        print("Goodbye!")
        break
```