```
import random
account_number = random.randint(1000, 9000)
while True:
     customer_code = ''
     while customer_code not in ['R', 'C', 'I']:
    customer_code = input("Enter customer code (R, C, or I): ").upper()
    if customer_code not in ['R', 'C', 'I']:
               print("Invalid input. Please enter R, C, or I")
     customer_name = input("Enter customer name: ")
address = input("Enter customer address: ")
phone_number = input("Enter customer phone number: ")
     beginning_reading = -1
     beginning_reading = -1
while(beginning_reading < 0 or beginning_reading > 999999999):
   beglinning_reading = int(input("Enter beginning reading (between 0 and 99999999): "))
   if beginning_reading < 0 or beginning_reading > 999999999:
        print("Invalid input. Reading should be between 0 and 999999999.")
     ending_reading = -1
     while(ending_reading < 0 or ending_reading > 999999999):
          ending_reading = int(input("Enter ending reading (between 0 and 99999999): "))
          if ending_reading < 0 or ending_reading > 999999999:
print("Invalid input. Reading should be between 0 and 999999999.")
     gallons = ending_reading - beginning_reading
     gallons_used = gallons / 10
     if customer_code == 'R':
     amount_billed = 5.00 + gallons_used * 0.0005
elif customer_code == 'C':
   if gallons_used <= 4000000:
               amount_billed = 1000.00
               amount_billed = 1000.00 + (gallons_used - 4000000) * 0.00025
     else:
          if gallons_used <= 4000000:</pre>
               amount_billed = 1000.00
          elif gallons_used <= 10000000:
               amount_billed = 2000.00
               amount_billed = 2000.00 + (gallons_used - 10000000) * 0.00025
```

```
if customer_code not in ['R', 'C', 'I']:
    print("Tauglid in ['R', 'C', 'I']:
         print("\overline{I}nvalid input. Please enter R, C, or I")
customer_name = input("Enter customer name: ")
address = input("Enter customer address: ")
phone_number = input("Enter customer phone number: ")
beginning_reading = -1
while(beginning_reading < 0 or beginning_reading > 999999999):
    beglinning_reading = int(input("Enter beginning reading (between 0 and 999999999): "))
     if beginning_reading < 0 or beginning_reading > 9999999999:
              print("Invalid input. Reading should be between 0 and 999999999.")
ending_reading = -1
while(ending_reading < 0 or ending_reading > 999999999):
    ending_reading = int(input("Enter ending reading (between 0 and 999999999): "))
    if ending_reading < 0 or ending_reading > 9999999999:
    print("Invalid input. Reading should be between 0 and 999999999.")
if ending_reading < beginning_reading:</pre>
        gallons = ((ending_reading + 1000000000) - beginning_reading)
gallons = ending_reading - beginning_reading
gallons_used = gallons / 10
if customer_code == 'R':
    amount_billed = 5.00 + gallons_used * 0.0005
elif customer_code == 'C':
     if gallons_used <= 4000000:</pre>
         amount_billed = 1000.00
    else:
         amount_billed = 1000.00 + (gallons_used - 4000000) * 0.00025
     if gallons_used <= 4000000:</pre>
         amount_billed = 1000.00
     elif gallons_used <= 10000000:
         amount\_billed = 2000.00
         amount_billed = 2000.00 + (gallons_used - 10000000) * 0.00025
print("----")
print("Account Number:", account_number)
print("Customer Name:", customer_name)
print("Address:", address)
print("Phone Number:", phone_number)
print(f"Customer Code: {customer_code}")
print(f"Beginning Reading: {beginning_reading:09}")
print(f"Ending Reading: {ending_reading:09}")
print(f"Gallons of Water Used: {gallons_used}")
print(f"Amount Billed: ${amount_billed:.2f}")
print("-
choice = input("\nDo you want to perform new calculation? (Y/N): ").upper()
if choice != 'Y':
    break
else:
    account_number += 1
```

```
= RESTART: /Users/krishahemani/Downloads/CSULB/Spring2024/174/week6/Project2b.py
    Enter customer code (R, C, or I): I
    Enter customer name: j
    Enter customer address: jhde
    Enter customer phone number: 57942834905
    Enter beginning reading (between 0 and 999999999): 345
    Enter ending reading (between 0 and 999999999): 654
               -----Bill-----
    Account Number: 6447
    Customer Name: j
    Address: jhde
    Phone Number: 57942834905
    Customer Code: I
    Beginning Reading: 000000345
    Ending Reading: 000000654
    Gallons of Water Used: 30.9
    Amount Billed: $1000.00
    Do you want to perform new calculation? (Y/N): y
    Enter customer code (R, C, or I): i
    Enter customer name: hbfade
    Enter customer address: 830 sbfjwe 83i45
    Enter customer phone number: 7690210450
    Enter beginning reading (between 0 and 999999999): 999999999
    Enter ending reading (between 0 and 999999999): 999999999
                       --Bill-
    Account Number: 6448
    Customer Name: hbfade
    Address: 830 sbfjwe 83i45
    Phone Number: 7690210450
    Customer Code: I
    Beginning Reading: 999999999
    Ending Reading: 999999999
    Gallons of Water Used: 0.0
    Amount Billed: $1000.00
    Do you want to perform new calculation? (Y/N): n
>>>
import random
account_number = random.randint(1000, 9000)
while True:
 customer code = "
 while customer_code not in ['R', 'C', 'I']:
   customer_code = input("Enter customer code (R, C, or I): ").upper()
   if customer_code not in ['R', 'C', 'I']:
     print("Invalid input. Please enter R, C, or I")
 customer name = input("Enter customer name: ")
 address = input("Enter customer address: ")
 phone_number = input("Enter customer phone number: ")
```

```
beginning_reading = -1
while(beginning_reading < 0 or beginning_reading > 999999999):
 beginning_reading = int(input("Enter beginning reading (between 0 and 99999999): "))
 if beginning_reading < 0 or beginning_reading > 9999999999:
     print("Invalid input. Reading should be between 0 and 999999999.")
ending_reading = -1
while(ending_reading < 0 or ending_reading > 999999999):
 ending_reading = int(input("Enter ending reading (between 0 and 99999999): "))
 if ending_reading < 0 or ending_reading > 9999999999:
     print("Invalid input. Reading should be between 0 and 999999999.")
if ending_reading < beginning_reading:
   gallons = ((ending reading + 100000000) - beginning reading)
else:
   gallons = ending_reading - beginning_reading
gallons_used = gallons / 10
if customer code == 'R':
 amount_billed = 5.00 + gallons_used * 0.0005
elif customer_code == 'C':
 if gallons_used <= 4000000:
   amount billed = 1000.00
 else:
   amount billed = 1000.00 + (gallons used - 4000000) * 0.00025
else:
 if gallons used <= 4000000:
   amount\_billed = 1000.00
 elif gallons used <= 10000000:
   amount_billed = 2000.00
   amount_billed = 2000.00 + (gallons_used - 10000000) * 0.00025
print("-----")
print("Account Number:", account_number)
print("Customer Name:", customer_name)
print("Address:", address)
print("Phone Number:", phone number)
print(f"Customer Code: {customer_code}")
print(f"Beginning Reading: {beginning_reading:09}")
print(f"Ending Reading: {ending_reading:09}")
print(f"Gallons of Water Used: {gallons_used}")
print(f"Amount Billed: ${amount_billed:.2f}")
print("-----")
```

```
choice = input("\nDo you want to perform new calculation? (Y/N): ").upper()
if choice != 'Y':
    break
else:
    account_number += 1
```