investment\_amount = int(input("Enter investment amount (Greater than 0 and less than 50000): "))

while not investment\_amount > 0 or not investment\_amount < 50000:

print(f"Your number: {investment\_amount}, was not valid.")

investment\_amount = int(input("Enter investment amount (Greater than 0 and less than 50000): "))

interest\_rate = int(input("Enter interest rate (Greater than 0 but less than 15): "))

while not interest\_rate > 0 or not interest\_rate < 15:

print(f"Your number: {interest\_rate}, was not valid.")

interest\_rate = int(input("Enter interest rate (Greater than 0 but less than 15): "))

investment\_duration = int(input("Enter investment duration in years (Greater than 0): "))

while not investment\_duration > 0:

print(f"Your number: {investment\_duration}, was not valid.")

investment\_duration = int(input("Enter investment duration in years (Greater than 0): "))

duration\_years = investment\_duration

months = duration\_years \* 12

monthly\_interest\_rate = (interest\_rate / 12) / 100

total = investment\_amount

for month in range(1, months + 1):

total += investment\_amount # Add the investment amount

interest = total \* monthly\_interest\_rate # Calculate interest

total += interest # Add interest to total

total = round(total, 2) # Round for currency

if month % 12 == 0:

year = month // 12

print(f"Year {year}: Total investment value is ${total:.2f}")

print(f"\nTotal duration: {duration\_years} years")

print(f"Annual interest rate: {interest\_rate}%")

print(f"Monthly investment amount: ${investment\_amount:.2f}")

print(f"Total amount after compounding: ${total:.2f}")

print(f"completed by Ben Andrews")

