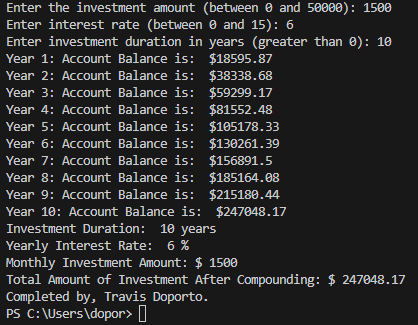
ITSE 1302

Travis Doporto

Lesson 3 Assignment



investment\_amount = int(input("Enter the investment amount (between 0 and 50000): "))

while investment\_amount < 0 or investment\_amount > 50000:

    print("Investment amount invalid.")

    investment\_amount = int(input("Enter the investment amount (between 0 and 50000): "))

interest\_rate = int(input("Enter interest rate (between 0 and 15): "))

while interest\_rate < 0 or interest\_rate > 15:

    print("Interest rate invalid")

    interest\_rate =int(input("Enter interest rate (between 0 and 15): "))

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

while investment\_duration < 0:

    print("Investment duration invalid.")

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

total\_balance = 0

monthly\_rate = interest\_rate / 12 /100

months = investment\_duration \* 12

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

    total\_balance = total\_balance + investment\_amount

    total\_balance = (monthly\_rate \* total\_balance) + total\_balance

    total\_balance = round(total\_balance, 2)

    if month % 12 == 0:

        print(f"Year {month // 12}: Account Balance is:  ${round(total\_balance, 2)}")

print(f"Investment Duration: ", investment\_duration, "years")

print(f"Yearly Interest Rate: ", interest\_rate, "%")

print(f"Monthly Investment Amount: $", investment\_amount)

print(f"Total Amount of Investment After Compounding: $", total\_balance)

print("Completed by, Travis Doporto.")