**Module 05: Critical Thinking Assignment**

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CSC500-1: Principles of Programming

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**Module 05: Critical Thinking Assignment**

**Git Repository**

<https://github.com/saraKhon/CTA005_CSC500_SaraKhon-.git>

**Part I: Source Code:**

# Will be used to track the total rainfall and the total number of months  
total\_months = 0  
total\_rainFall = 0  
  
# ask the user to input the number of years,  
years = int(input("Enter the number of years: " )) # convert str to int  
  
# Using a for loop for the outer loop to iterate once a year  
for year in range(1, years +1): # add the 1 in the 1st parameter so it starts @1 and not 0 print(f"Year:{year}")  
  
 for month in range(1,13): # start of the inner loop  
 while True:  
 try:  
 rain = float(input(f" Enter the amount of rainfall (in inches) for month {month}: "))  
 if rain <0:  
 print( "ERROR - Entered a non-negative number. Try again.")  
 continue  
 break  
 except ValueError: # handles value error  
 print( "Enter a valid value (IN INCHES)")  
  
 total\_rainFall +=rain  
 total\_months +=1  
  
  
# gets the average rainfall for the entire period  
average\_rainFall = total\_rainFall/total\_months  
  
# prints out the work  
print("\n -- Rainfall Summary --")  
print("Displaying - Total Number of Months: ", total\_months)  
print("Displaying - Total Inches of rainfall: {:.2f} inches".format(total\_rainFall))  
print("Displaying Average rainfall for the Entire Period: {:.2f} inches".format(average\_rainFall))

**Module 04: Milestone**

**Part II: Source Code:**

while True:  
 *# get the user input* books\_Purchased = int(input("Enter the number of books purchased this month: "))  
  
 if books\_Purchased < 2:  
 points = 0  
 print("You have earned O points")  
 elif books\_Purchased < 4:  
 points = 5  
 print("You have earned 5 points")  
 elif books\_Purchased < 6:  
 point = 15  
 print("You have earned 15 points")  
 elif books\_Purchased < 8:  
 point = 30  
 print("You have earned 30 points")  
  
 else:  
 point = 60  
 print("You have earned 60 points this month! YAY! ")  
  
 *# Ask the user if they want to exit the application* answer = input("Do you want to exist the application? (yes or no) )").lower()  
  
 if answer !="no":  
 print("Goodbye!")  
 break *# stop the while loop, end the application*

**Module 04: Milestone**

**Screen Shot Part I**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screen Shot Part II:**

**A computer screen shot of a number of books

AI-generated content may be incorrect.**