Metropolitan State University, Saint Paul, Minnesota

ICS 140 Computational Thinking with Programming

Assignment 7

**Population**

Write a program that predicts the approximate size of a population of organisms. The application should prompt the user to enter the starting number of organisms, the average daily population increase (as a percentage), and number of days the organisms will be left to multiply. Day 1 should list the starting population and then each day after that should increase the population by the average increase percentage until we reach the number of days provided.

It should look something like this when run:

Text

Description automatically generated

Paste the python code below in the Python code section.

**Assignment 7 Python Code**

population = float(input("Number of starting organisms : "))

increase = float(input("Daily percentage increase : "))

days = int(input("Days to multiply : "))

for x in range(days):

print(f"Day: {x + 1}")

population = population \* (increase/100) + population

print(f"Population: {population}")

Paste the screenshot of the program

**Screenshot of Program Output**

Graphical user interface, text, application

Description automatically generated