/\*

Maxwell Maia

21236277

1/2/2022

\*/

#include <stdio.h>

void main()

{

//Question 1

FILE\* fptr; //make a file pointer

fopen\_s(&fptr, "C:\\Users\\Maxie\\Desktop\\dogs.txt", "r+"); //open file for reading and writing

if (fptr != NULL) //check that file was opened successfully

{

fseek(fptr, 0, SEEK\_END); //set the position to the end of the file

int len = ftell(fptr); //get the current file position. This int is the file size.

printf("Size of dogs.txt is %d bytes.\n\n", len); //print file size

fclose(fptr);

}

//Question 2

fopen\_s(&fptr, "C:\\Users\\Maxie\\Desktop\\dogs.txt", "r+"); //open file for reading and writing

fseek(fptr, -3, SEEK\_END); //go 3 spaces from end of file

fputs("Boxer", fptr); //place "Boxer" there. adds some new bytes to file

fclose(fptr);

//Question 3

fopen\_s(&fptr, "C:\\Users\\Maxie\\Desktop\\countries.txt", "r+"); //open file for reading

char line[200];

char country[30];

int population = 0;

if (fptr != NULL) //make sure the file was read

{

int i = 0, j = 0;

while (!feof(fptr)) //loop through the file until the end of the file

{//(will be reading line by line)

fgets(line, 200, fptr); //get the next (or first) line

//get the country name

while (line[i] != '\t') //until there isn't a tab charcter...

{

country[j] = line[i]; //...save the current character as a character of the country name.

i++; //increment to move to the next character in line for next loop.

j++; //increment to store the next character of country.

}

country[j] = '\0'; //end of string needs a \0

i++;

j = 0; //start at position 0 for next country name.

population = atoi(&line[i]); //get the population and convert and save it as an integer

printf("Country: %s\tPopulation: %d\n", country, population); //print a country name and population.

i = 0, j = 0; //reset counters to 0.

}

fclose(fptr); //close file

}

//Question 4

int mPopulation = 27690000;

fopen\_s(&fptr, "C:\\Users\\Maxie\\Desktop\\countries.txt", "a"); //open file for appending

if (fptr != NULL)

{

fprintf(fptr, "\nMadagascar\t%d", mPopulation); //append text

}

fclose(fptr); //close file

}



