## **CSc 3320: Systems Programming**

Spring 2021 Homework # 4: Total points 100

## Submission instructions:

- 1. Create a Google doc for each homework assignment submission.
- 2. Start your responses from page 2 of the document and copy these instructions on page 1.
- 3. Fill in your name, campus ID and panther # in the fields provided. If this information is missing in your document TWO POINTS WILL BE DEDUCTED per submission.
- 4. Keep this page 1 intact on all your submissions. If this *submissions instructions* page is missing in your submission TWO POINTS WILL BE DEDUCTED per submission.
- 5. Each homework will typically have 2-3 PARTS, where each PART focuses on specific topic(s).
- 6. Start your responses to each PART on a new page.
- 7. If you are being asked to write code copy the code into a separate txt file and submit that as well.
- 8. If you are being asked to test code or run specific commands or scripts, provide the evidence of your outputs through a screenshot and copy the same into the document.
- 9. Upon completion, download a .PDF version of the document and submit the same.

Full Name: Alexandra Gentile

Campus ID: agentile2

Panther #: 002413770

```
[[agentile2@gsuad.gsu.edu@snowball ~]$ vi checkPassword.c
   [[agentile2@gsuad.gsu.edu@snowball ~]$ cc checkPassword.c
   [[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
   [Please enter your password: panthers
   [your password is safe[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
   [Please enter your password: qwe
   deduction: 35
   [your password is unsafe, reset![agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
   [Please enter your password: panthers
   [your password is safe[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
   [Please enter your password: 123
   deduction: 35
    your password is unsafe, reset![agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
   [Please enter your password: 1
   deduction: 45
your password is unsafe, reset![agentile2@gsuad.gsu.edu@snowball ~]$ \sqcap
```

```
#include <stdio.h>
#include <string.h>
          int main() {
                   ///declaring varibales
char ch[10]; //initilazing password string length of 10
int length;
                    int points;
                    int newLength;
                    //user inputs password
                   printf("Please enter your password: ");
                   scanf('%s', ch);
length = strlen(ch);// initilizes string length of entered pass)
ord as length variable
                    //check entered password length
if(length !=10) { // if length does not equal 10 characters the
    newLength=10-length; //declares new length as the missi
g number of characters
                              points = 5*newLength; // declares points as 5 times the
                   points);
                    else{ // else if points is less than 30
          printf("your password is safe");
                    } // else if length equals 10
                             printf("your password is safe");
                    return 0;
```

```
your password is safe[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
Please enter your password: panthers1
deduction: 40
your password is unsafe, reset![agentile2@gsuad.gsu.edu@snowball ~]$ ./a
.out
Please enter your password: Panthers1
[agentile2@gsuad.gsu.edu@snowball ~]$ [
```

```
🔘 🌑 💼 alexisgentile — agentile2@gsuad.gsu.edu@snowball:~ — ssh agentile2@...
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter a word: madam
[madam is not palindrone[agentile2@gsuad.gsu.edu@snowball ~]$ vi isPalindrone.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ cc isPalindrone.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter a word: madam
[madam is not palindrone[agentile2@gsuad.gsu.edu@snowball ~]$ vi isPalindrone.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ cc isPalindrone.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
enter a word: madam
madam is palindrone
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter a word: man
man is not palindrone
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter a word: racecar
racecar is palindrone
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter a word: wow
wow is palindrone
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
enter a word: word
word is not palindrone
[agentile2@gsuad.gsu.edu@snowball ~]$ [
```

```
[[agentile2@gsuad.gsu.edu@snowball ~]$ gcc -Wall -std=c99 -g countryCodes.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter the country code: 24
[Country not found[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter the country code: 34
[Country: Spain[agentile2@gsuad.gsu.edu@snowball ~]$vi countryCodes.c
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
enter the country code: 34
[Country: Spain[agentile2@gsuad.gsu.edu@snowball ~]$ gcc -Wall -std=c99 -g countr
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
enter the country code: 34
Country: Spain
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
[enter the country code: 1
Country: United States
[[agentile2@gsuad.gsu.edu@snowball ~]$ ./a.out
enter the country code: 63
Country: Philippines
[agentile2@gsuad.gsu.edu@snowball ~]$ [
```