GSET - Programming with Mr. Hill - Summer 2021

Introduction to C++ - Tutorial 4 - Your Name in ASCII

Overview:

We are going to write a C++ program to display your name in ASCII characters on the screen.

System Requirements:

- **Computer**: A computer is required to complete this tutorial. Any OS should work.
- **C++:** You can use the online C++ compiler (OnlineGDB) or a C++ compiler of your choice.

Problem Statement:

- Given: Your name in character format.
- Find: Your name in ASCII decimal and hex codes.

Program Minimum Requirements:

The program should accomplish the following tasks.

- Your name should be stored as an array of characters.
- Your program should print your name to the screen in character format.
- Your program should print your name to the screen in ASCII decimal code format.
- Your program should print your name to the screen in ASCII hex code format.

Optional Advanced Features:

- Your name should be read from the user during program execution
- The program should also include your last name and possibly other info.
- Your program should make a cool beeping sound when is it complete.
- Your program should make return the length (number or characters) in your name.

Example Code:

1. This is the C style way to output text.

```
1
2  // Arrays of Characters - GSET - Summer 2021
3
4  #include <iostream>
5
6  using namespace std;
7
8  int main()
9  {
10
11    char myname[]={"Tristan"};
12
13    char c = 'T';
14
15    cout<<"Hello World\n";
16
17    cout<<myname<<endl;
18
19    cout<<myname[1]<<endl;
20
21    cout<<(int)c<<"\a" <<endl;
22
23    return 0;
24 }
```

Part 3 - Testing:

1. Complete the C++ code to the solve the problem described.

2. Test your code with different inputs. Is the answer correct? How do you know? Are there certain inputs that do not work?

3. Save your code with the download button or use copy and paste. You can view and edit the code in any text editor. Also, save a copy of the program output for your tutorial summary.

Solution Code:

Tutorial Summary:

Write a brief summary of what you accomplished and what you struggled with the most. Include the following items in the summary:

- a copy of the output of your program
- a description of what the program does and how to use it