**Individual Project Report**

Last name: Sherrell

Fist name: Justin

**Your report sections**

1. **Summary**: Write a summary of your program design.

My program design is a somewhat-functioning computer that can draw ascii, play music (show song name and artist on screen), and let users select favorite songs which exports their favorite songs to a txt file at the end of the program. Finally, it allows users to write and store notes that can be viewed as a txt file after the program ends.

1. **Output**: Attach screenshot images of your entire C++ program running output (not the source code) with a short description.  
   Text

   Description automatically generated with medium confidence  
   This picture is the menu screen when you first boot up the program. The user gets to select where they want to go.  
     
   A picture containing text

   Description automatically generated  
   In this picture we are at the music player. The user is shown a menu with options, and in this case, the user typed 3 and favorited a song.  
     
   Text

   Description automatically generated

In this picture, we are at the ascii art menu where the user is being asked for input.

1. **Code**: Explain a few highlights of your algorithm design in detail including conditional statements (e.g., *if, else),* loop *(while or/and for),* randomization*, and* function definition. You must add images of screen capture or actual code block along with your design approach.  
     
   Graphical user interface, text

   Description automatically generated  
   My printing function that takes an int to know what txt file you want to print.   
     
   I made a string array to store all the location names of the txt files, so I didn’t have to create a ton of variables.  
     
   Then, the next block of code is all about printing out the txt files by using get line. It works by starting at the top of the txt files then moving down until line fails to grab a line, so, the end of the txt file.

Logo, company name

Description automatically generated

The random song option for my music player.  
  
The code stores the song the user was currently on, then in a do – while it creates a new song number to play but checks if the new song number was the same as the old one (the one that was saved at the start). Then it calls the print function to print out the new random song and goes back to the music selection input.

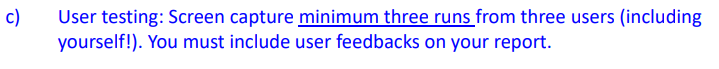
1. Add a reference relate to any information about your project (e.g., reference product or image). Please follow [APA citation guide.](https://www.ufv.ca/media/assets/academic-success-centre/handouts/APA-Quick-Bits-7th-Ed.-rev-June-2021.pdf)

Hangg, R. (n.d.) Ascii Art Archive.  [https://www.asciiart.eu](%20https://www.asciiart.eu%20)  (Accessed on October 24, 2022).  
  
Used ascii art from here.

A picture containing text, computer, electronics

Description automatically generatedDiagram

Description automatically generated



Tester: My mom

Feedback: She likes my music selection.

A screenshot of a computer

Description automatically generated with medium confidence

Output:

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text

Description automatically generated

Tester: Me

Feedback: I think the dog is cute.

A picture containing graphical user interface

Description automatically generated

Output:

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated

Tester: My brother

Feedback: He thought it was cool how the screen builds one line a time.

Graphical user interface

Description automatically generated with low confidence

Output:

Text

Description automatically generatedText

Description automatically generated