

## **1.0 Introduction**

### **1.1 Project Description**

The project represents the morse code. The program was created to convert users' input into morse characters and then express it with sound effects.

#### **1.1.1 Background**

The program was decided to create on personal goals. I used to be interested in learning the Morse alphabet, and this chance seemed convenient and exciting to me.

#### **1.1.2 Assumptions and Constraints**

The significant underestimation of this program is that it only converts text to Morse code, but not vice versa. Some places in the code can be written more accurately in the future, but they do not affect the program's functionality in any way.

### **1.2 Overview of the Envisioned System**

#### **1.2.1 Overview**

The program works through the console, and it does not need any text files. The user inserts the text to be translated into Morse code. After that, he hears the voice version of the conversion, and after that, the text will be provided for further use by the user.

## **3.0 Description of Envisioned System**

### **3.1 Needs, Goals, and Objectives of Envisioned System**

Because the code itself is simple, it has a word limit. The primary purpose of the code is to return text in Morse code. In the future, you can add feedback so that it would be possible to translate it back to plain text at the user's request.

### **3.2 Overview of System and Key Elements**

The code consists of three main parts. The first part is converting the user's text into uppercase letters to make it easier for developers to continue the cod's development. The second part is the conversion of the text created by uppercase letters into morse, and the final piece is a sound effect connection with morse text.

## **4.0 Physical Environment**

Only a monitor, laptop, or pc is needed. The program is independent and is not connected with other devices instead than the ones mentioned earlier.