Significant Program Proposal

(This is a proposal. All proposals are written with our best knowledge at the beginning of a project. As we progress from the beginning to the end of a project, we gain more knowledge, and some of the ideas we proposed change. This is part of completing any project and is fine.)

However, we still must write a proposal so that our teachers or supervisors know what we intend to do. Please answer each of the following questions to the best of your knowledge.)

1. What is the title of your program?

Morse code, coding and decoding

2. What real world problem will your program address or help to solve?

Morse code is a method to encode text characters as standardized sequences of two different signal durations, called dots and dashes, is used in aviation to ensure that the station the pilots are using are serviceable and some modern navigation receivers translate the code into displayed letters.

An important application is to ask for help through SOS (...▄▄▄▄▄▄▄▄▄ ...)

3. What will you learn from developing this program?

I will learn more about dictionaries, lists, learn how to develop a graphical user interface (GUI)with simples buttons.

4. What Python modules will your program use? (Some examples are: csv,

datetime, functools, matplotlib, math, pandas, pytest, random, requests,

and tkinter.)

The module I will use is Tkinter to create buttons and text entry.

5. Will you separate your Python program into functions that each

perform a single task?

My program will have at least two functions, one to decode and one to encode.

6. Will you write test functions to test many of your program functions?

Yes I will write test functions to test my program.