# Year 12 Pre-Release Example Questions

Please **do not look for specific solutions online**, as the example questions can easily be found. Try and work out the answers yourselves individually or in groups.

## Q1. Read / Write to binary file

Modify the program in order to allow the user to read / write the transmission (from form of spaces and equals signs) to a binary format (in order to reduce space taken to store)

## Q2. Validation of a menu option

The program currently just prints the menu again when an incorrect option is input; add validation so the program prints a message when an invalid option is input.

## Q3. Translate transmission directly to English (bypass file)

Update the receiving of a signal to allow the direct input of a communications stream of data, rather than txt file. Provide the option to select the input.

## Q4. Create and save transmission signal when sending

Convert the generated Morse code into a transmission signal. Write the transmission signal into a text file.

## Q5. Add Morse code for punctuation

Allow the user to convert punctuation (for which there is Morse code available) into Morse code.

## Q6. Validation of a message to send

Currently lowercase characters crash the program, add functionality to translate lowercase letters.

## Q7. Accept multiple lines of text to convert to Morse code

Enable the option to enter a full paragraph of text.

## Q8. List Characters

Output a list of all of the characters from the list next to their Morse code representation.