Morse Code Program Overview:

The program contains 2 parts

1. Convert from Morse to Text.
2. Convert from Text to Morse.

This may be applied through these 2 methods

1. Black Console (Input and Output)
2. File Handling ("Morse.txt", "Text.txt")

```
                        Welcome To Morse Code System
                     This System coded by Abouzabady Mohamed
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Choose an Option to Continue
1. Convert From Text To Morse
2. Convert From Morse To Text
3. Convert From Morse To Text Using Files
4. Convert From Text To Morse Using Files
5. Exit From The System
```
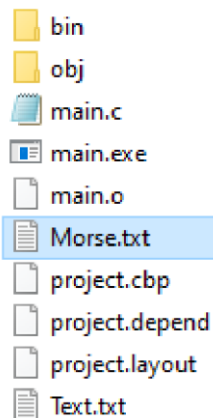
Menu Options:

1- You should enter small or capital English letters and then it will be converted at once into dashes and dots (Morse Code) The screen will print how many dots and dashes the code contains.

```
Choose an Option to Continue
1. Convert From Text To Morse
2. Convert From Morse To Text
3. Convert From Morse To Text Using Files
4. Convert From Text To Morse Using Files
5. Exit From The System
1
Enter the Text you want to convert
I Love Programming
.. / .-.. --- ...- . / .--. .-. --- --. .-. .- -- -- .. -. --.
 The code has 21 Dot(s)
 The code has 22 Dash(es)
```

2- The program will accept dots and dashes only "." "-" user should enter a space between 2 letters and "/" between 2 words. Then, the black screen will show the number of repeated times for every English letter.

```
2
Enter The Morse you want to convert
.. /.-.. --- ...- . /.--- .-. --- --. .-. .- -- -- .. -. --.
i love programming
Letter      Times
  a          1
  b          0
  c          0
  d          0
  e          1
  f          0
  g          2
  h          0
  i          2
  j          0
  k          0
  l          1
  m          2
  n          1
  o          2
  p          1
  q          0
  r          2
  s          0
  t          0
  u          0
  v          1
  w          0
  x          0
  y          0
  z          0
```

3- This choice means that the user wants to use the file handling feature. It is expected from the user to open the file "Morse.txt" and add the Morse code that he/she is willing to convert in the file "Text.txt". The user should leave a space after every letter and "/" after every word. The black screen will show How much was every letter repeated.

- 📁 bin
- 📁 obj
- 📄 main.c
- 📄 main.exe
- 📄 main.o
- 📄 Morse.txt
- 📄 project.cbp
- 📄 project.depend
- 📄 project.layout
- 📄 Text.txt

4- It is expected from the program to convert from text to Morse using the file handling. User has to open "Text.txt" and write the text he/she is willing to convert. The program will show the converted text in "Morse.txt" and will show the number of dots and dashes that the code contains through the black screen.

5- It will end running the program.

Requirements to build the project:

- There are not any external libraries required to build it.
- The program may be built easily using the standard c compiler.
- The program does not require and special hardware.