

Section B

You are advised to spend no more than **20 minutes** on this section.

Enter your answers to **Section B** in your Electronic Answer Document.

You **must save** this document at regular intervals.

The question in this section asks you to write program code **starting from a new program/project/file**.

You are advised to save your program at regular intervals.

0	1
---	---

Morse code is a universally recognised method of transmission.

Figure 1 shows a table of morse code with corresponding capital letters.

Figure 1

A ● -	J ● - - -	S ● ● ●
B - ● ● ●	K - ● -	T -
C - ● - ●	L ● - ● ●	U ● ● -
D - ● ●	M - -	V ● ● ● -
E ●	N - ●	W ● - -
F ● ● - ●	O - - -	X - ● ● -
G - - ●	P ● - - ●	Y - ● - -
H ● ● ● ●	Q - - ● -	Z - - ● ●
I ● ●	R ● - ●	

Figure 2

Input: AQA

Output: .- --.- .-

Input:-.. .--.

Output: HELP

What you need to do

Task 1

Write a function called **EncodeMorse(Message)** which will convert a message into morse code. A space should be inserted between each letter. Write a second function called **DecodeMorse(Message)** which will convert morse code back into letters.

Write a program that allows a user to user a message and your program should convert accordingly as in Figure 2 above.

Task 2

Test the program by entering the sentence "COVIDINCREASING"

Task 3

Test the program by entering the sentence

".-.. .- --.- . -- .- ... -.-"

Evidence that you need to provide

Include the following in your Electronic Answer Document.

0	1	.	1
---	---	---	---

Your PROGRAM SOURCE CODE.

[12 marks]

0	1	.	2
---	---	---	---

SCREEN CAPTURE(S) for the test showing the output of the program when "COVIDINCREASING" is entered.

[1 mark]

0	1	.	3
---	---	---	---

SCREEN CAPTURE(S) for the test showing the output of the program when ". . - . . - - . - . . -- . - . . . - . -" is entered.

[1 mark]