

GHANA COMMUNICATION TECHNOLOGY UNIVERSITY (GCTU)



Assignment-2024

FACULTY OF COMPUTING AND INFORMATION SYSTEMS

DEPARTMENT OF COMPUTER SCIENCE

CSSD 101 PROGRAMMING & PROBLEM SOLVING

DIP COMP. SCI 100

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QUESTION:

A program is required to read from the screen the length and width of a rectangular block house

, and the length and width of the rectangular house that has been built on the block.

the algorithm should then compute and display the mowing time required to cut the grass around the house at the rate of two square meters per minute

ALGORITHM

ANSWER:

Input:

1. Length of the block
2. width of the block
3. length of the house
4. width of the house

Processing:

Calculate the area of the grass to be mowed. This can be done by subtracting the area of the house from the area of the block and assign it to a variable called grass_area.

$\text{grass_area} = (\text{block_length} * \text{block_width}) - (\text{house_length} * \text{house_width})$

Use the formula to calculate the mowing time:

$\text{grass_area} / 2$

Output:

Print out the mowing time

PROGRAM:

<u>Input</u>	<u>Processing</u>	<u>Output</u>
1.Length of the block 2.width of the block 3.length of the house 4.width of the house	((Length of the block *width of the block) - (length of the house *width of the house)/2)	print out the results