



**SCHOOL OF PRE-UNIVERSITY STUDIES
FOUNDATION PROGRAMMES**

**WRITTEN TEST 1 (SET 4)
AUGUST 2022 SEMESTER**

MODULE NAME : INTRODUCTION TO ALGORITHM

MODULE CODE : ITS30705

TIME : 1 HOUR

This paper consists of FOUR (4) printed pages.

Student Name

Student ID

Tutorial Group

Instruction to Candidates:

1. Answer all questions in the paper and the answers are to be written in either black or dark blue pen.
2. This is a closed book examination, no notes are permitted.
3. Non-programmable electronic calculators may be used.
4. Severe disciplinary action will be taken against those caught violating examination rules.

**DO NOT TURN THIS PAGE UNTIL INSTRUCTED TO DO SO.
TO BE RETURNED AT THE END OF THE TEST.**

Question 1

Create a program that calculate the area of a parallelogram. The program accepts the length of base and height of parallelogram. The base and height value are pass to a function that calculate the area of a parallelogram and return the area of the parallelogram to be displayed in the program. Figure below show the formula of a parallelogram. Complete:

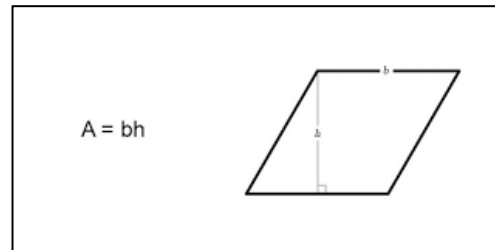


Figure 1: Area of parallelogram

a) The pseudocode of the program

(5 marks)

b) The flowchart of the program

(5 marks)

c) The code of the program

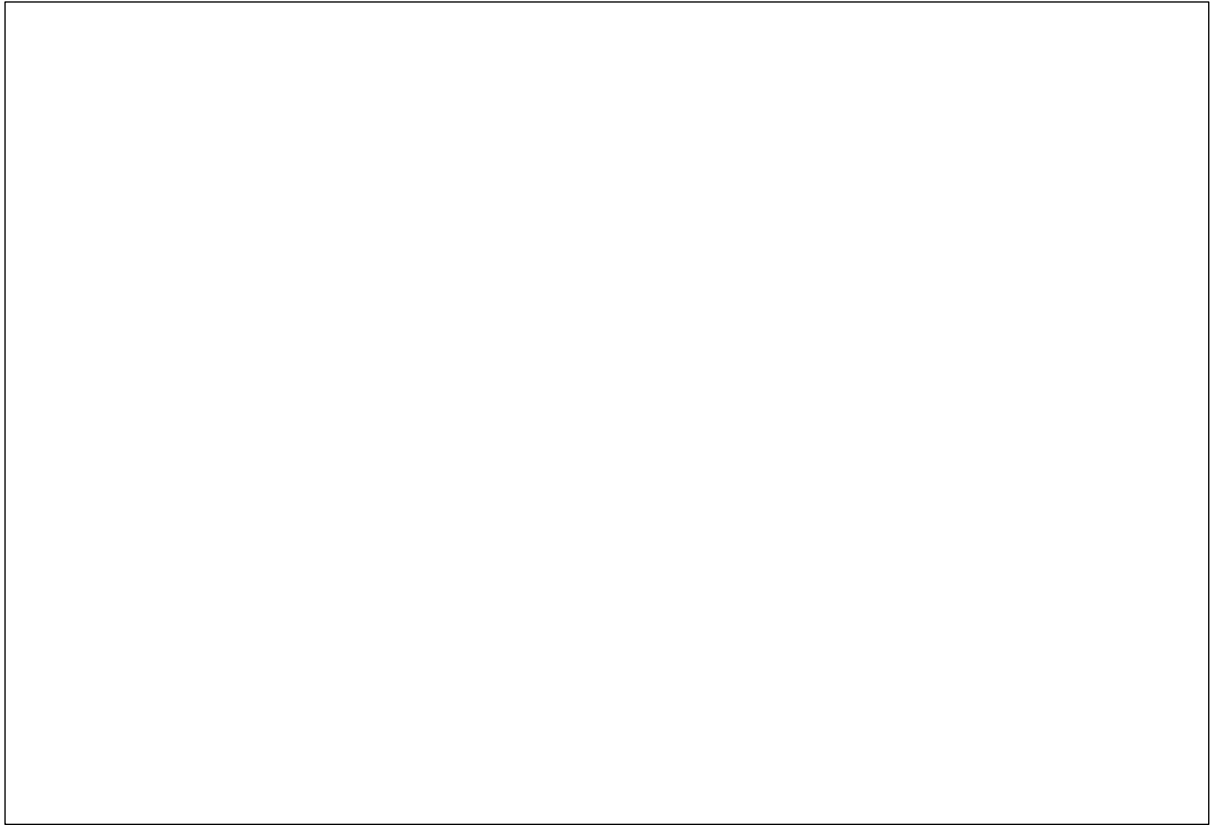
(5 marks)

Question 2

Write a program that accept age, gender, and number of days that calculate the total wages to be accepted based on the number of days and display the total wages. If the age does not fall in any range, then display message “Enter appropriate age”.

(5 marks)

Age	Sex	Wage/day
18 – 29	M	700
	F	750
30 – 40	M	800
	F	850



--- END OF TEST PAPER ---