|  |
| --- |
| **Declaration of Original Work**  By submitting the answer script of this assignment to the subject lecturer through Moodle Centralized Group, you hereby declare that the work in the answer sheet is completely your own work. No part of the answer sheet is taken from other people’s work without giving them credit. All references have been clearly cited.  You understand that an infringement of this declaration leaves you subject to disciplinary actions such as mark deduction, disqualification or even expulsion by the College.  If necessary, students may be invited to provide more information on their submission. |

*(Please refer to the relevant section(s) on plagiarism of the Student Handbook.)*

**Instructions to Students:**

1. Please refer to assignment specification for the submission method
2. Show all your work clearly and neatly. Marks will be deducted for untidy work.

**Answer ALL questions.**

**Answer for Question 1**

A= 08 b=88 c=84 d=48

a) + \* a b \*c d -> +\*8 88 \* 84 48

b) a\*b + c\*d -> 8\*88 + 84\*48

c) 4736

**Answer for Question 2**

a)

一張含有 文字 的圖片

自動產生的描述

b)

一張含有 文字 的圖片

自動產生的描述

c) 一張含有 文字 的圖片

自動產生的描述

**Answer for Question 3**

8 88 84 48 80 840 880

a=8

b=88

c=84

d=48

e=80

f=840

g=880

a)

i)

一張含有 文字 的圖片

自動產生的描述

ii)

一張含有 文字, 螢幕 的圖片

自動產生的描述

b)

一張含有 文字 的圖片

自動產生的描述

c)

一張含有 文字 的圖片

自動產生的描述

d)

advantage of searchAllPath must be able to choose a shortest path by listing all the path. And for the advantage of searchpathbyweight time complexity is lower. And for the disadvantage of searchAllPath is that the time complexity will need a longer time to run all the path. As for the disadvantages searchpathbyweight may not find the shortest path since it is dependent on the next loop and won’t take another path.

一張含有 文字 的圖片

自動產生的描述一張含有 文字 的圖片

自動產生的描述一張含有 文字 的圖片

自動產生的描述一張含有 文字 的圖片

自動產生的描述一張含有 文字 的圖片

自動產生的描述

**Answer for Question 4**

A)

A picture containing sky, electronics, day

Description automatically generated

b)

一張含有 文字, 天空, 白天 的圖片

自動產生的描述

C)88, 80, 880, 48, 84, 840, 8