



INFORMATICS
INSTITUTE OF
TECHNOLOGY

UNIVERSITY OF
WESTMINSTER

Informatics Institute of Technology

Department of Computing

(B.Eng.) in Software Engineering

Module: 4COSC006C Program Principles 1

Module Leader: Mr. Saman Hettiarachchi

Coursework 1

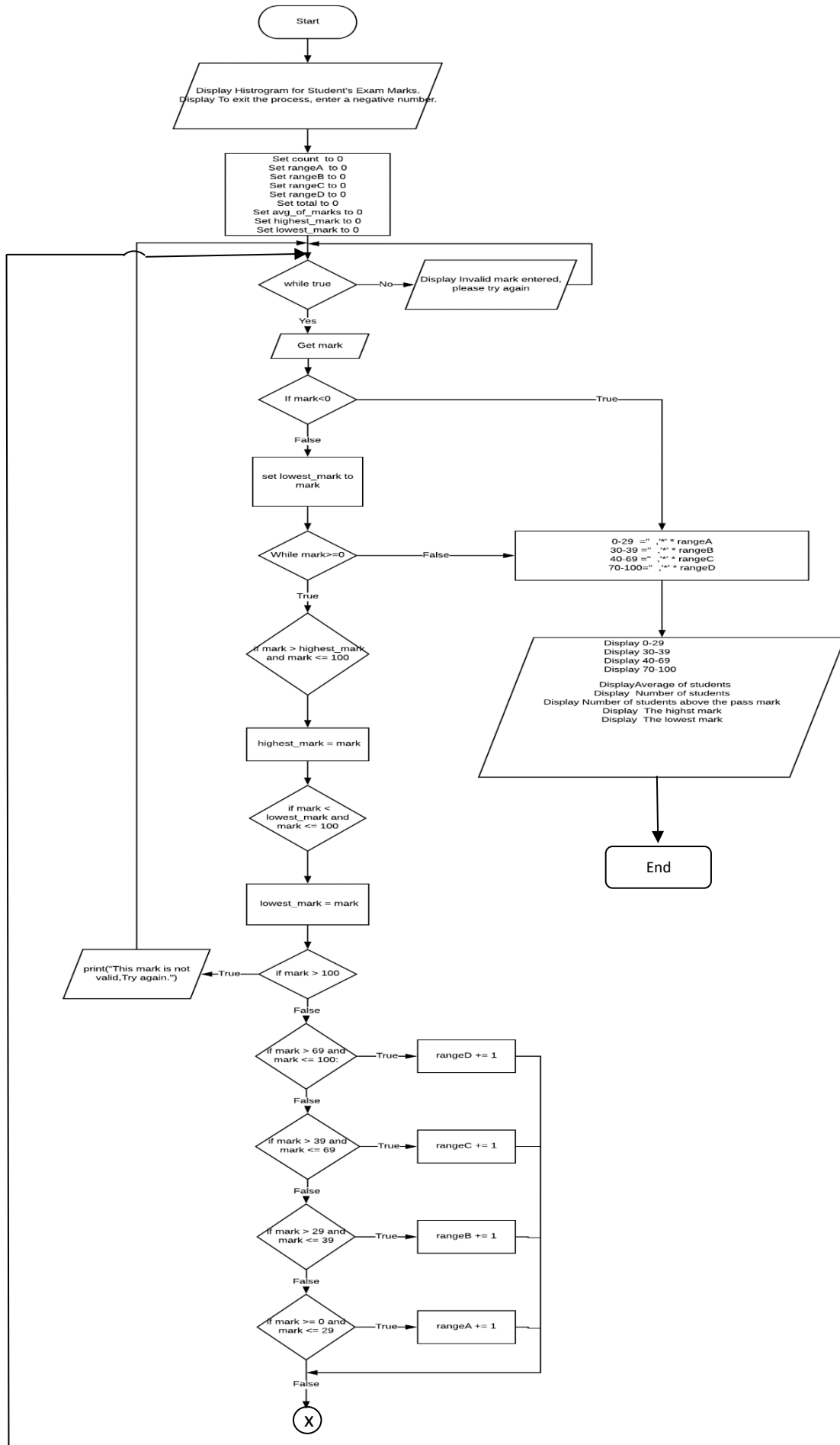
Date of Submission: 2018/11/27

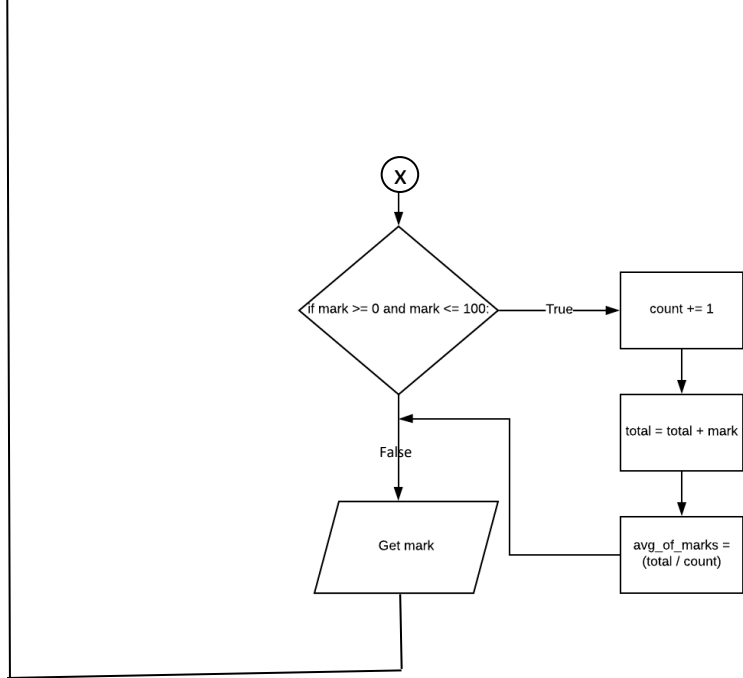
Student ID : 2018116

Student UoW ID :w1714892

Student First Name: Chamath

Student Surname : Peiris





- Marking Scheme (Part 1 and Part 2)
- Test Plan for Part 1 (Histogram)

Student Name:

TEST PLAN – 1. Histogram Assessment					Tutor to Complete at Viva		
	Test No .	Test Data (Input)	Expected Result (Output)	Student to complete: Pass, Fail or Not Attempted	Marks	Test Cases	Maximum Marks (includes test case)
Part A - Basic Program	1	0, 29 30, 39 40, 69 70, 100 (& -1)	Histogram Displayed: 0-29 ** 30-39 ** 40-69 ** 70-100 ** 8 students in total	Pass	(16)	Test case correct for each category & total students (5)	/21
Part B - Statistics	2	20, 50,	a) Average: 55	Pass	(4)	Test case correct for a, b, c, d (4)	/8
	3	55, 80, 70	b) Pass: 4	Pass			
	4	(& -1)	c) Highest mark: 80	Pass			
	5		d) Lowest mark : 20	Pass			
Part C - Validation	6	A	Error message	Pass	(2)	Test case correct (2)	/6
		101	Error message		(2)		
Part D - Vertical Histogram	7	0, 29 30, 39 40, 69 70, 100 (& -1)	Vertical Histogram displayed:		(6)	Test case correct for each category (4)	/10
			0-29 30-39 40-69 70-100 * * * * * * * *	Pass			
Flowchart diagram (10)						(10)	/18
Viva (Part 1) Programming style & acceptable referencing						(8)	
Total (Part 1 – Histogram)						/63	
Tutor to Complete at Viva							
Part 2 - Assignment (Encoding / Decoding Strings)							37
Part A: Program accepts a message, key (1 to 25). Encodes lower case characters.						12	
Part B: (Optional) Menu. Decrypts using encrypted message and key						6	
Part C: (Extension) Menu. Decrypts message with word from decoded string.						6	
User-defined functions						6	
Viva (Part 2) Programming style & acceptable referencing						7	

