INTERNATIONAL DIPLOMA IN COMPUTING
INTERNATIONAL DIPLOMA IN BUSINESS COMPUTING
INFORMATICS COMPUTER DIPLOMA
HIGHER DIPLOMA IN BUSINESS & INFORMATION TECHNOLOGY

PROGRAM DESIGN (C1002/CS112)
ASSIGNMENT
TERM 2 2011

Student declaration:

I declare that:
- *I understand what is meant by plagiarism*
- *The implication of plagiarism has been explained to me by my institution*
- *This assignment is all my own work and I have acknowledged any use of the published and unpublished works of other people.*

Student's signature:……………………………. Date:………………………

Total number of pages including this cover page			
Submission Date		**Due Date**	
Students' ID		**Class Code**	
Student's Full Name			
Lecturer's Name			

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Marker's comments		
Marker's name	**Initial marks awarded**	**/100**
	Penalty on late submission	
	Penalty for plagiarism	
	Final marks awarded	**/100**

Name of Student   : _____

Student ID   : _____

Module Code   : C1002/CS112

Criteria	Base Mark	Graded Mark	Comments
1. Explain what you understand by the term 'Machine Language'. Write a short report (of 500 to 800 words), making use of examples where relevant.	**60 marks**		
2. Describe at least two type of 'Language Translator" that is widely used as they are before? Based on your understanding, write a short report (of 1000 to 1200 words), making use of examples where relevant.	**40 marks**		
Total	**100 marks**		

Instructions to Students:

1.   Complete the cover sheet (page1), which forms the first page of your assignment submission.

2.   The assessment criteria includes:

    (a)   <u>Content of Work.</u> This includes the amount of research done to provide accurate and credible information necessary for this assignment.

    (b)   <u>Creativity, Originality and Style of Work.</u> This refers to the uniqueness and artistic element of the final assignment.

    (c)   <u>Presentation of the Final Assignment.</u> This refers to the clarity, organization and final project.

3.   Independent research on the relevant topic area is encouraged. Work that demonstrates an in-depth analysis of the question and that provides a coherent answer will be awarded a higher grade compared to that which simply regurgitates answers from the texts.

4.   To avoid plagiarism please:
    -   paraphrasing work rather than 'cut & paste'
    -   include citation in your work
    -   include a reference list in the work you submit

Please note that your work will be submitted to a detection software and if work is found to have been plagiarized, your work will be penalized. The following is a guide that will be used when penalizing work:

Amount of plagiarized material	Marks reduction	
	No attribution made	Inadequate attribution made
Less than 20%	No reduction	No reduction
Less than 20% is a guide used to accommodate the limitation of the software i.e. assignment questions submitted which creates an increase in the SI index. Students are reminded to paraphrase, cite your work with proper referencing.		
Between 21 % and 50%	Reduce marks by 50% (Divide marks by 2)	Reduce marks by 25% (Multiply marks by ¾)
Between 51% and 70%	Reduce marks by 67% (Divide marks by 3)	Reduce marks by 50% (Divide marks by 2)
Between 71% and 80%	Reduce marks by 75% (Divide marks by 4)	Reduce marks by 67% (Divide marks by 3)
Over 80%	Reduce to zero	Reduce marks by 75% (Divide marks by 4)

5.   A minimum of three (3) references from academic journals are required aside from the textbook of the course.

6.   The document must include page number; use Times New Roman Font (Size 12) with top, bottom margins of 1" and right, left margins of 1.25" and with 'Justify' alignment.

7.   The assignment should be organized as follows:

(a)   Cover Page. (found on the first page of this questions paper)

(b)   Table of Contents.

(c)   Main body of the assignment. (This should observe the given word count limit)

(d)   References: Example:

- Berko, R., Rosenfeld, L., and Samovar, L. (1997), Connecting, Harcourt Brace & Company, USA.

Complete the mark criteria list with your name and id and submit it together in your assignment.

8.   Assignments must be presented in hard copy with CD well secured in the hardcopy. The CD should contain the following documents: Softcopy of the assignment that is submitted and the plagiarism report. Retain a photocopy of your course assignment.

9.   Complete your assignment and hand it in by: 10th Lesson

10.   Lecturer has the discretion of applying a penalty of 20% for late submission.

ASSIGNMENT QUESTIONS:

Question (100 marks)

Regardless of what High-level programming language you use, you eventually need to convert your program into machine language so that the computer can understand it. There are number of ways to do this such as:

- Compile the program

- Interpret the program

(a)   Explain what you understand by the term 'Machine Language'. Write a short report (of 500 to 800 words), making use of examples where relevant.   [40 marks]

(b)   Describe at least two type of 'Language Translator" that is widely used as they are before? Based on your understanding, write a short report (of 1000 to 1200 words), making use of examples where relevant.   [60 marks]

Additional Information:-

1. Be sure to include acknowledgements and references in your report. Failure to do so will be considered as plagiarism and 0 marks will be for the entire assignment.

Other Guidelines

1. Indicate all references, e.g. Web-site URL or reference books, used in the preparation of the assignment.

   Students are to indicate the following items of information in referencing:

   • Author of the reference
   • Title of the reference
   • Publisher
   • Edition
   • Year of edition
   • Pages to which information was taken from.

   An example of such a referencing would be as follows:

   [PRE97] Pressman, Roger S., *Software Engineering: A Practitioner's Approach (4th Edition)*, McGraw-Hill International Editions, 1997. Pages 400 to 405.

   If you are drawing information from a website, indicate the following:

   • Website URL
   • Title of URL
   • Author of URL/Publisher of URL
   • Year of last modification

[TAT97] Tate, Debi (1997). *NT Firewalls take charge of network*. LAN Times Online. www.lantimes.com/97/97aug/708a005a.html

Marks will be deducted for improper or inadequate referencing.

2. Plagiarism, i.e. copying and treating it off as original material, particularly for Sections B and C, *will* result in your entire assignment being awarded *zero* marks. In the event that quotations from various published works are used, you are to indicate the reference behind the quotation.

3. The marks indicated behind each question part of the assignment are indications of the weight of your answer. You should correspondingly accord more attention to the parts that have been allocated more marks.

- END OF ASSIGNMENT -