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|  | ASSIGNEMNT BRIEF |
| HTU Course No:  BTEC UNIT No: | 30201100 HTU Course Name: Fundamentals of Computing  BTEC UNIT Name: |
| |  | | --- | |  |   **Version: 3** |  |

**Assignment Brief**

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| Student Name/ID Number/Section |  |
| HTU Course Number and Title | **30201100: Fundamentals of Computing** |
| BTEC Unit Number and Title | **Not Available** |
| Academic Year | Fall 2020/2021 |
| Assignment Author | Eng. Malek Al-Louzi, Eng. Atheer AlShaggah, Dr. Nayef AbuAqeel, Eng. Alaa AlBakhit, and Eng. Ali Omari |
| Course Tutor | Eng. Malek Al-Louzi, Eng. Atheer AlShaggah, Dr. Nayef AbuAqeel, Eng. Alaa AlBakhit, and Eng. Ali Omari |
| Assignment Title | Intelligent **humanoid robot to support International Queen Alia Airport** |
| Assignment Ref No | **Assignment 1** |
| Issue Date | 22th December 2020 |
| Formative Assessment dates | 3rd January 2021 to 21st January 2021 |
| Submission Date | 31st January 2021 Report and Source Code Submission  6th February 2021 to 11th February 2021 Oral Assessment Period (According to your Instructor) |
| IV Name & Date | Eng. Malek Al -Louzi 21th December 2020 |

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| **Submission Format** |
| This assignment consists of two parts: Time constrained online assignment, and project design take home part. You must complete both parts and submit them according to the following guidelines (Failing to follow these guidelines may result an ‘unclassified’ grade):  ***Project Design Guidelines***  This assignment consists of two arts: take-home part and in-class part. You must complete both parts and submit them according to the following guidelines:  ***Take-home part***   * You are required to submit a well formatted report providing complete answers to all tasks as   following:   1. A word or PDF file (use the format that send for you from the instructor) include:    * 1. **The flow chart** you used to implement your program, the **block diagram** with yourjustifications of task number five. **(Don’t use auto generated flow charts)**      2. **Sample Runs:** Screenshots capturing the resulting output files when different inputs areused. **(NOT photos of the screen by the camera)**.      3. The **student declaration form** attached to this assignment brief (use electronic signature to sign it). 2. You must submit a **Source File** for the program you developed (extension should be .c like *YourName\_FOC.c*). The source file should be**fully commented**. All your work of coding andcompilation should be done using **Ubuntu and gcc** compiler only.    * Soft-copy submissions are only allowed, you are required to upload your submission files to the university’s eLearning system through (<https://elearning.htu.edu.jo/>) within the submission date and time stated above. **NO SUBMISSION by EMAIL and NO LATE** **SUBMISSIONS WILL BE ACCEPTED.** Failing to follow this guideline may result in an‘unclassified’ grade.  * If you commit any kind of plagiarism, HTU policies and regulations will be applied. * This is a strictly individual assignment and no collaboration amongst students is allowed, where working with your colleagues is not a teamwork, it is a kind of plagiarism.   ***In-Class part***   * In-class assessment will be one to one online oral discussion between you and your instructor on Microsoft Teams, which includes designing, developing, debugging, analyzing, and evaluating the code and algorithm developed in this project. * The attendance of the oral assessment is mandatory in the date and time determined by your instructor (up to 45 minutes) within the period time stated above and be ready to open your camera from beginning of the assessment. * Answering all tasks in the report with the code will be evaluated through the oral assessment. So, any question in the oral assessment for any criteria is not answered in the required level that mean you will lose that criteria, even though you answered it in the report and not included directly in a specific question. * You must sign the witness form that your instructor will fill up during the discussion to complete the oral assessment process. |

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| **Unit Learning Outcomes** |
| **LO1** Discuss the basic concepts of computer hardware, software and operating systems, with the basic relation between them, taking C commands as an example.  **LO2** Implement a full program in C with identification of the three kinds of control structures: sequence, selection, and repetition, understanding the capabilities of implementing C codes that capable to deal with functions.  **LO3** Understanding the basic concepts of pointers in C with implementation of arrays and dealing with files. In addition to the role of C programming as a powerful tool to communicate between devices and manipulate their data. |
| **Task’s Answers** |
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**STUDENT ASSESSMENT SUBMISSION AND DECLARATION**

When submitting evidence for assessment, each student must sign a declaration

confirming that the work is their own.

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| **Student name:**  **Student ID:** | | **Assessor name:**  Eng. Malek Allouzi |
| **Issue date:**  22/12/2020 | **Submission date:**  31/1 /2021 | **Submitted on:**  / /2021 |
| **Programme:** | | |
| **HTU Course Name:** Fundamentals of Computing **BTEC UNIT Title \*: NA**  **HTU Course Code:** 30201100 **BTEC UNIT Code: NA**  **I AM REPEATING THIS UNIT\*: (YES) (NO)** | | |

**Plagiarism**

**Date:**

**Student signature:**

**Student declaration**

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

Plagiarism is a particular form of cheating. Plagiarism must be avoided at all costs and students who break the rules, however innocently, may be penalised. It is your responsibility to ensure that you understand **correct referencing practices**. As a university level student, you are expected to use appropriate references throughout and keep carefully detailed notes of all your sources of materials for material you have used in your work, including any material downloaded from the Internet. Please consult the relevant unit lecturer or your course tutor if you need any further advi