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| KEMENTERIAN PENDIDIKAN BAHAGIAN MATRIKULASI | *CONTINUOUS ASSESSMENT* <br> *MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME COLLEGE:* <br> *PERAK MATRICULATION COLLEGE* |

| *Stream*: | **JURUSAN SAINS KOMPUTER** | *Session*: | **2025/2026** |
|---|---|---|---|
| *Module*: | **COMPUTER PROGRAMMING** | *Semester:* | **2** |
| *Course*: | **COMPUTER PROGRAMMING 2** | *Class*: | **C01,C02** |
| *Code*: | **CP125** | | |

| *Course Learning Outcome* (CLO) | Task | *Student Learning Time* | | *Weightage (%)* | *Date Set* | *Date of Submission* |
|---|---|---|---|---|---|---|
| | | **F2F** | **NF2F** | | | |
| CLO 2 – Solve simple problems using algorithms and a programming language. | Assignment (Individual) | 0 | 3 | 10 | **12.1.2026** | **30.1.2026** |
| CLO 3 – Demonstrate programming skills in solving simple problems. | Practical Test 1 (Individual) | 0.5 | 1.0 | 10 | **15.12.2025** | **19.12.2025** |
| CLO 3 – Demonstrate programming skills in solving simple problems. | Practical Test 2 (Individual) | 0.5 | 1.5 | 15 | **02.02.2026** | **06.02.2026** |
| CLO 3 – Demonstrate programming skills in solving simple problems. | Practical Test 3 (Individual) | 0.5 | 2 | 15 | **16.3.2026** | **18.3.2026** |

*Continuous Assessment Details*

| Task | Topic | Assessment Objectives | Learning Outcomes Domain | Taxonomy Level | Transferable Skills | Assessment Criteria |
|---|---|---|---|---|---|---|
| 1. Assignment | Topic 2: Lists | Students should be able to: <br> (i) Add new elements to a list using the append() method. <br> (j) Remove elements from a list using remove() method. <br> (k) Sort list in ascending or descending order | MQF LOC ii – Cognitive skills | C4 –Analyzing | Critical Thinking and Problem Solving | Scoring rubric (Attachment 1) |

| Task | Topic | Assessment Objectives | Learning Outcomes Domain | Taxonomy Level | Transferable Skills | Assessment Criteria |
|---|---|---|---|---|---|---|
| | | using sort() method. (l) Search elements from a list using index( ) method. | | | | |
| 2. Practical Test 1 (Individual) | Topic 1: Pre-defined and User-defined Functions | Students should be able to: (h) Construct a Python program using user-defined functions with control structures. | MQF LOC iii a – Digital skills | P4 - Mechanism | Digital Skills | Scoring rubric (Attachment 2) |
| 3. Practical Test 2 (Individual) | Topic 2: Lists | Students should be able to: (o) Construct a Python program using list functions and methods with control structures. | MQF LOC iii a – Digital skills | P4 - Mechanism | Digital Skills | Scoring rubric (Attachment 3) |
| 3. Practical Test 3 (Individual) | Topic 4: Files | Students should be able to: (h) Construct a Python program that reads a file and solves a problem using lists and functions | MQF LOC iii a – Digital skills | P4 - Mechanism | Digital Skills | Scoring rubric (Attachment 3) |

*Prepared By:*

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**Muhammad Aiman Syahmi bin Haris**
Computer Science Lecturer

*Checked By:*

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**Zulkarnaen Bin Saridi**
Head of Computer Science Unit

*Endorsed By:*

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**Mardawiah Binti Tawil**
Head of Mathematics Department

*TASK SPECIFICATIONS*
*MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME*

| Stream: | **JURUSAN SAINS KOMPUTER** | Session: | **2025/2026** | |
|---|---|---|---|---|
| Module: | **COMPUTER PROGRAMMING** | Semester | **2** | |
| Course: | **COMPUTER PROGRAMMING 2** | Class: | **C01,C02** | |
| Code: | **CP125** | | | |
| Course Learning Outcome (CLO): | CLO 2 –Solve simple problems using algorithms and a programming language. | | | |
| Type of Assessment: | Assignment | | | |
| Topic: | Topic 2: Lists | | | |
| Assessment Objectives: | Students should be able to: <br> (i) Add new elements to a list using the append() method. <br> (j) Remove elements from a list using remove() method. <br> (k) Sort list in ascending or descending order using sort() method. <br> (l) Search elements from a list using index( ) method. | | | |
| Student Learning Time: | F2F | NF2F | Weighting (%): | **10** |
| | **0** | **3** | | |
| Date Set: | **12.1.2026** | | Date of Submission: | **30.1.2026** |
| Learning Outcomes Domain: | **MQF LOC ii: Cognitive skills** | | Taxonomy Level: | **C4 –Analyzing** |
| Assessment Criteria | **Scoring rubric (Attachment 1)** | | | |

**Academic Integrity**

1. Students need to take into consideration three (3) aspects about academic integrity which are plagiarism, copying and late submission.
2. All students' assignments will be checked for academic integrity excluding argument facts and information which are available in the given assignment.
3. Any non-compliance of academic integrity will result in inappropriate mark deduction.
4. Plagiarism is defined as:
   i. The practice of copying or taking a part of or the whole of other people's creation and claiming it as one's own.
   ii. Displaying other people's creation as one's own creation.
   iii. Taking/plagiarizing other people's intellectual work without stating the reference.
5. Copying is not allowed. Students who are found out to be copying others' work will not be awarded marks.

**Late Submission of Assignments:**

1. Students are held responsible to complete and submit their assignments according to the predetermined date of submission.
2. The date of submission of every component of or the whole assignment is stated on the front page of student's assignment questions.
3. 5% of the overall coursework marks will be deducted every day after the due date for late submission of assignment.
4. Assignments will be evaluated based on predetermined coursework and the deduction for late submission will be applied.
5. For example, if the total coursework mark is 60%, the student will lose 3 marks everyday (5% x 60 = 3). Hence, if the student gets 48/60 after the assignment is evaluated and late submission surpasses two (2) days, the final marks for the student will be 48 – 6 = 42 marks.
6. Table below shows the deduction of marks based on total coursework marks respectively.
7. Students are strictly not allowed to submit new assignments for mark and grade improvements.
8. Students who cannot hand in the assignment on a due date due to illness or official matter should submit a medical certificate or any related official letters.

| Number of days late | % of marks deduction | | |
|---|---|---|---|
| | Coursework = 100% | Coursework = 60% | Coursework = 50% |
| 1 | 5 | 3 | 2.5 |
| 2 | 10 | 6 | 5.0 |
| 3 | 15 | 9 | 7.5 |
| 4 | 20 | 12 | 10.0 |
| 5 | 25 | 15 | 12.5 |
| 6 | 30 | 18 | 15.0 |
| 7 | 35 | 21 | 17.5 |
| 8 | 40 | 24 | 20.0 |
| 9 | 45 | 27 | 22.5 |
| 10 | 50 | 30 | 25.0 |
| 11 | 55 | 33 | 27.5 |
| 12 | 60 | 36 | 30.0 |
| 13 | 65 | 39 | 32.5 |
| 14 | 70 | 42 | 35.0 |
| 15 | 75 | 45 | 37.5 |
| 16 | 80 | 48 | 40.0 |
| 17 | 85 | 51 | 42.5 |
| 18 | 90 | 54 | 45.0 |
| 19 | 95 | 57 | 47.5 |
| ≥ 20 | 100 | 60 | 50.0 |

**Good Assignment Characteristics:**

1. Accurate and precise information searching with proper APA format reference.

2. The writing of assignment portrays intensive and mature knowledge mastery and skills.

**Assessment Criteria**

Assignments will be reviewed based on the attached scoring rubric.

| *Prepared By:* | *Checked By:* | *Endorsed By:* |
|---|---|---|
| …………………………………………… | …………………………………………… | …………………………………………………… |
| **Muhammad Aiman Syahmi bin Haris** | **Zulkarnaen Bin Saridi** | **Mardawiah Binti Tawil** |
| Computer Science Lecturer | Head of Computer Science Unit | Head of Mathematics Department |

**ASSIGNMENT RUBRIC**
**Topic 2: Lists**

| Criteria | Missing Item | Low | Average | Excellent | Weight | Mark | | Total |
|---|---|---|---|---|---|---|---|---|
| | **0** | **1** | **2** | **3** | | Examiner | Moderator | |
| **Implementation**<br><br>Python Program | No program is provided. | The program is developed but with syntax errors. | The program is developed and runs successfully but does not fully solve the given problem. | The program is successfully developed based on the presented algorithm and run successfully. | 4 | | | |
| | No program. | Contain syntax error. | Contain runtime/ logic errors. | The program runs successfully and solves the given problem. | | | | |
| **Testing and Verification** | Did not provide any sample output. | Provide only one sample output. | Provide at least two sample output. | Provide all possibilities of test data with complete sample output. | 2 | | | |
| | No sample of output. | The sample covers one possibility only. | The sample covers two possibilities only. | Covers all possibilities. | | | | |
| **Originality** | There is evidence that shows the task is totally a copy of other people's work (from any source). | Only a few parts of the task show the original work. | Most of the tasks show original work. | The task shows substantial originality. | 1 | | | |
| | Totally a copy of other people's work. | Perform a task with limited trust, honesty, sincerity, and transparency. | Most of the tasks show original work. | Always perform a task with trust, honesty, sincerity and transparency in any situation. | | | | |

| Criteria | Missing Item | Low | Average | Excellent | Weight | Mark | | Total |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Examiner | Moderator | |
| | 0 | 1 | 2 | 3 | | | | |
| **Documentation**<br><br>- Comments<br>- Descriptions | No comments or description provided. | Only a part of comments/description provided. | Comments/ descriptions completely provided but unclear. | The comments/ descriptions are complete, with clear explanations reflecting a good understanding of the task. | 1 | | | |
| | No comments/ descriptions are provided at all. | Very minimum comments/ descriptions provided. | Comments/ descriptions provided but not sufficient to describe the program. | Comments/ descriptions are sufficiently describing the program. | | **Total** | | |

**Rubric of Practical Test 1**
**Title:** Pre-defined and User-defined Functions

**Instruction: Please circle the student mark on each skill using the following scale:**
<div align="center">

**2 = Complete          1 = Incomplete                0 = None**

</div>

| ITEM | CRITERIA | ASSESSMENT | | |
|---|---|---|---|---|
| **(A)**<br>**Create file** | **Create new source file and save** | 2 | 1 | 0 |
| | **Add programmer's name and problem description** | 2 | 1 | 0 |
| | Total (A) | | | |
| **(B)**<br>**Write Code** | **Create correct function** | 2 | 1 | 0 |
| | **Prompt user input and Read input** | 2 | 1 | 0 |
| | **Apply appropriate selection control structures** | 2 | 1 | 0 |
| | **Display output** | 2 | 1 | 0 |
| | Total (B) | | | |
| **(C)**<br><br>**Execute** | **The program successfully compiled without syntax error** | 2 | 1 | 0 |
| | **The program successfully run without run-time error** | 2 | 1 | 0 |
| | **The program successfully run without logic error** | 2 | 1 | 0 |
| | **Display correct output** | 2 | 1 | 0 |
| | Total (C) | | | |
| | STUDENT MARKS (A+B+C) | | | |
| | TOTAL (Marks / 20 x 10%) | | | |

**Rubric of Practical Test 2**
**Title:** Lists

**Instruction: Please circle the student mark on each skill using the following scale:**

**2 = Complete          1 = Incomplete                    0 = None**

| ITEM | CRITERIA | ASSESSMENT | | |
|---|---|---|---|---|
| **(A)** **Create file** | **Create new source file and save** | **2** | **1** | **0** |
| | **Add programmer's name and problem description** | **2** | **1** | **0** |
| | Total (A) | | | |
| **(B)** **Write Code** | **Provide documentation** | **2** | **1** | **0** |
| | **Prompt user input and Read input** | **2** | **1** | **0** |
| | **Apply appropriate control structures** | **2** | **1** | **0** |
| | **Display output** | **2** | **1** | **0** |
| | Total (B) | | | |
| **(C)** **Execute** | **The program successfully compiled without syntax error** | **2** | **1** | **0** |
| | **The program successfully run without run-time error** | **2** | **1** | **0** |
| | **The program successfully run without logic error** | **2** | **1** | **0** |
| | **Display correct output** | **2** | **1** | **0** |
| | Total (C) | | | |
| | STUDENT MARKS (A+B+C) | | | |
| | TOTAL (Marks/ 20 x 15%) | | | |

**Rubric of Practical Test 3**
**Title:** Files

**Instruction: Please circle the student mark on each skill using the following scale:**

**2 = Complete          1 = Incomplete                    0 = None**

| ITEM | CRITERIA | ASSESSMENT | | |
|---|---|---|---|---|
| **(A)**<br>**Create file** | **File is saved in Google Drive or local machine** | **2** | **1** | **0** |
| | **Python csv module is imported** | **2** | **1** | **0** |
| | Total (A) | | | |
| **(B)**<br>**Write Code** | **File is open with suitable opening mode for reading (r or r+)** | **2** | **1** | **0** |
| | **Create reader object to read the file** | **2** | **1** | **0** |
| | **File is open with suitable opening mode for appending to file  (a or a+)** | **2** | **1** | **0** |
| | **Create writer object to write new row to the file** | **2** | **1** | **0** |
| | Total (B) | | | |
| **(C)**<br><br>**Execute** | **The program successfully compiled without syntax error** | **2** | **1** | **0** |
| | **The program successfully run without run-time error** | **2** | **1** | **0** |
| | **The program successfully run without logic error** | **2** | **1** | **0** |
| | **Display correct output** | **2** | **1** | **0** |
| | Total (C) | | | |
| | STUDENT MARKS (A+B+C) | | | |
| | TOTAL (Marks / 20 x 15%) | | | |