

**Assignment Brief: Comp1421 Foundations of Computing 2021-22**

<b>Assignment 1</b>	Report with annotated code
<b>Word Limit or equivalent (e.g. time)</b>	1500 words
<b>Weighting</b>	25%
<b>Learning Outcomes Assessed</b>	Develop and deploy algorithms to solve real-world computational problems
<b>Submission date</b>	Friday 3 <sup>rd</sup> December 2021
<b>Feedback date</b>	All assignment feedback will be issued on the 20 <sup>th</sup> working day following the submission deadline. Feedback will be released on: Monday 17 <sup>th</sup> January 2022
<b>Module Leader</b>	Dr. Colin Price <a href="mailto:c.price@worc.ac.uk">c.price@worc.ac.uk</a>
<b>Verified by</b>	Dr. Chris Bowers

***If anything about this assignment is not clear to you, please contact your module leader.***

<b>What do I need to do to make a success of this assignment?</b>	<p>You should choose one algorithm you have worked with in class. Guidance will be provided by your tutor.</p> <p>Your report will contain two main parts (1) The flow diagram for your algorithm which is labelled to show both <i>control flow</i> and <i>data flow</i>. (2) Annotated code which is labelled to show <i>control flow</i> and <i>data flow</i> and also the <i>goal hierarchy</i> of the program.</p> <p>Please read the grading matrix. Note that no journal references are required for this assignment, but your quality of writing will be assessed.</p>
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<b>How should I present my work?</b>	<p>Your report should be structured as follows. Please add page numbers in the header or footer.</p> <ol style="list-style-type: none"> <li>1) Title page: Student number, module name, assignment number, date.</li> <li>2) Introduction: State the algorithm you have chosen and its main goal</li> <li>3) Flow diagram labelled to show both <i>control flow</i> and <i>data flow</i></li> <li>4) Annotated code: labelled to show <i>control flow</i> and <i>data flow</i> and also the <i>goal hierarchy</i> of the program</li> <li>5) Explanation of how the code and flow diagram are related.</li> </ol> <p>You are also required to submit your code and log files to the separate drop-box in Blackboard.</p> <p>References (use the University Harvard referencing system, support is available through the library <a href="http://www.worc.ac.uk/library/guides/study-skills/referencing">www.worc.ac.uk/library/guides/study-skills/referencing</a>)</p>
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<b>How can I obtain guidance on my assignment?</b>	<p>You can submit an assessment plan of your work in progress or a short piece of text (no longer than one side of A4) to enable you to obtain guidance on the overall structure and direction of your assignment. You should submit this no later than one week before the submission deadline to enable you to review and address feedback provided to develop your work.</p> <p>Guidance for this assignment will be given during w/c 20 Sept 2021 and w/c 8 November 2021.</p>
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<b>How and when do I hand my assignment in?</b>	<p>Your work must be word-processed/typed and should clearly show your student number. You should submit your work by the 3pm deadline on Friday 3<sup>rd</sup> December 2021. You should submit your work to a drop-box in Blackboard which is available via MyDay.</p> <p>You are also required to submit your code and log files to the separate drop-box in Blackboard.</p> <p><b>You are required to keep a copy of work handed in.</b></p> <p>See the University's guide to uploading and submitting assessment items via Blackboard: <a href="https://help.blackboard.com/Learn/Student">https://help.blackboard.com/Learn/Student</a></p> <p>If you have issues with Blackboard, Turnitin or PebblePad you will need to contact <a href="mailto:tel@worc.ac.uk">tel@worc.ac.uk</a></p>
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<b>How will my assignment be marked?</b>	<p>Specific marking criteria for your assignment is provided in the Grading Matrix within this document.</p> <p>You are strongly advised to check your completed work against the Grading Matrix to ensure have completed all areas required before you submit it.</p> <p>You should also ensure you adhere to the word limit / word count stated in your assessment brief document, details of which can be found in the University's Assessment Policy <a href="http://www.worc.ac.uk/aqu/documents/AssessmentPolicy.pdf">http://www.worc.ac.uk/aqu/documents/AssessmentPolicy.pdf</a></p>
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**Grading Matrix for Comp1421 Foundations of Computing**

This matrix captures the assessment criteria for this part of the coursework.

<b>Student Number/Name:</b>		<b>Academic Year and Semester:</b>	2021-22 AS	<b>Learning Outcomes:</b> 1) Develop and deploy algorithms to solve real-world computational problems
<b>Module Code:</b>	Comp1421	<b>Assignment No/Weighting:</b>	Assignment 1 25%	
<b>Module Title:</b>	Foundations of Computing	<b>Assessment Title:</b>	Report and annotated code	

**Assessment Criteria**

To understand this matrix, start by reading the baseline grade-C descriptor.

		<b>Knowledge and Understanding</b>		<b>Communication</b>
<b>Grade</b>	<b>Annotated Code</b>	<b>Flow Diagram</b>	<b>Explanation</b>	<b>Quality of Writing</b>
	<b>30%</b>	<b>30%</b>	<b>30%</b>	<b>10%</b>
<b>A</b>	Annotated code is both comprehensive <b>AND</b> detailed	Correct diagram with use of <b>both</b> selection <b>and</b> iteration constructs. Data flow <b>and</b> control flow are indicated	Explanation is both comprehensive <b>AND</b> detailed	Connexions between the report sections are strong and produce a very <i>coherent</i> report.
<b>B</b>	Comprehensive <b>OR</b> detailed annotated code.	Correct diagram with use of <b>both</b> selection <b>and</b> iteration constructs. Data flow <b>or</b> control flow is indicated.	Comprehensive <b>OR</b> detailed explanation.	In addition, some connexions between report sections are made.
<b>C</b>	Annotated Code presented	Correct diagram with use of <b>either</b> the selection <b>or</b> the iteration construct. Data flow <b>or</b> control flow is indicated.	Explanation of how the code corresponds to the flow diagram.	Correct spelling and grammar. Conforms to the template provided

D	Annotated code is insufficient in quantity.	Diagram presented but may contain errors. Selection <b>or</b> iteration statement present. Data flow <b>or</b> control flow present.	Attempt at explanation, though not enough correspondences are made.	Some spelling or grammatical errors. Conforms to template provided.
E	Annotated code is insufficient with inaccuracies	Diagram presented, but may contain errors <b>or</b> omission of a construct <b>or</b> omission of a flow	Attempt at explanation, though there are errors in the explanation.	Many spelling and grammatical errors <b>AND/OR</b> does not conform to the template provided.
F	Annotated code is insufficient and mainly incorrect	Diagram presented but may contain errors. Omission of reference to a flow <b>and</b> selection/iteration structure.	Attempt at explanation, though there are errors in the explanation <b>and</b> not enough correspondences are made.	Report does not convey much meaning to the reader.
G	Attempt to annotate code, though it code is insufficient and mainly incorrect	Partial diagram presented. Omission of reference to a flow <b>and</b> selection/iteration structure	Explanation is mainly incorrect <b>and</b> not enough correspondences are made.	Barely comprehensible report
H	No demonstration of being able to annotate code	No demonstration of understanding flow diagrams.	No demonstration of understanding how flow diagrams and code are related.	Totally incomprehensible report.

**Feedback on your assignment.**

Please review this feedback and use it to develop your work in your next assignment in this and your other modules. If anything is unclear, please ask the marker.

**Aspects done well and why:**

- X
- X
- X

**Aspects for improvement and why:**

<ul style="list-style-type: none"> <li>• X</li> <li>• X</li> <li>• X</li> </ul>					
<b>Development for future assignments:</b>					
<ul style="list-style-type: none"> <li>• X</li> <li>• X</li> <li>• X</li> </ul>					
<b>How successful completion of this assignment helps your employability and achievement of graduate attributes:</b>					
<b>Grade awarded:</b>		<b>Marker:</b>	Colin Price	<b>Moderator*:</b>	Chris Bowers

*\* This person is responsible for moderating a sample of student work for this module. Your work may, or may not, have been included in this sample.*

I do not want my work to be used anonymously to help future students

**RESULTS ARE PROVISIONAL UNTIL AGREED BY THE BOARD OF EXAMINERS**