Solent University
Coursework Assessment Brief

Assessment Details

Module Title:	Programming for Problem Solving
Module Code:	COM728
Module Leader:	Jarutas Andritsch
Level:	7
Assessment Title:	The Software Project Demonstration
Assessment Number:	AE2
Assessment Type:	Software Demonstration
Restrictions on Time/Word Count:	No more than 10 minutes
Consequence of not meeting time/word count limit:	It is essential that assignments keep within the time/word count limit stated above. Any work beyond the maximum time/word length permitted will be disregarded and not accounted for in the final grade.
Individual/Group:	Individual
If a group	-
Assessment Weighting:	40%
Issue Date:	25th September 2023
Hand In Date:	11th January 2024 by 4:00 pm.
Planned Feedback Date:	Within 4 working weeks
Mode of Submission:	Online via SOL Only FINAL submissions will be accepted. DRAFT submissions will not be considered an attempt and will not be marked.
Number of copies to be submitted:	A screen recording of your demonstration. This should be an MP4 video file of no more than 10 minutes in duration and less than 250 MB in size. You should use the assessment submission link for AE2 on SOL to submit the recording. **It is crucial that the software you present matches the software development you have implemented and submitted for AE1. If you demonstrate different software from what you submitted, it will lead to a failing grade for your demonstration.**
Anonymous Marking	This assessment **is exempt from anonymous marking.**

Assessment Task

You are required to upload a screen recording showing a demonstration of your final working solution. This should be an MP4 video file or Panopto file of no more than 10 minutes in duration and less than 250 MB in size. The recorded demonstration should show you opening your project in Jupyter Notebook to show all the structure of your project, executing it and the result of selecting option. You should also show evidence of the development of the software artefact. You need to include a voice over briefly explaining in technical aspect of the implementation. There might be a question session later if it is needed by request from tutor.

Demonstration Outline

- Introduce yourself: your name
- Brief structure of your project
- Demonstrate the project work and results:
  - Demonstrate and discuss the technical implementation of the column and condition from you own selection in task a4.
  - Demonstrate and discuss the technical implementation of analysis result based on your own selection in task b4.
  - Demonstrate and discuss the technical implementation of visualisation of your choice on task c4.

You should justify the reason of your selection to retrieve/analyse/visualise that specify columns/information.

It is crucial that the software you present matches the software development you have implemented and submitted for AE1. If you demonstrate different software from what you submitted, it will lead to a failing grade for your presentation.

Assessment criteria

Learning Outcomes	UPPER FIRST A1 – A2 Exceed expectations in many aspects		FIRST A3 – A4 Substantially exceeds expectations		UPPER SECOND B1 – B3 (High) Meet learning outcomes and exceeds expectations in several aspects			LOWER SECOND C1 - C3 (Good) Meet learning outcomes and sometimes exceeds expectations			THIRD D1 - D3 (Competent) Meet learning outcomes			FAIL F1 – F3 (Incomplete/Poor) Fails to meet learning outcomes		
SOLENT GRADE	A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	D1	D2	D3	F1	F2	F3
Design computer programs in a logical and structured way using appropriate techniques and principles	Consistently demonstrates exceptional expertise in designing programs, highly advanced and principles. User interfaces and interactions are outstanding, resulting in exceptional display results and messages.		Designs complex programs with exceptional logical structure and adheres to advanced design principles, excel in implementing user interfaces and interactions, resulting in excellent display results and messages.		Designs programs with a high level of logical structure and adheres to best practices. User interface and interaction components are well-implemented, resulting in effective display results and messages.			Exhibits a good understanding of program design concepts, providing a logical and structured program. The user interface and interaction elements are adequately implemented, resulting in satisfactory display results and messages.			Basic knowledge of program design principles. They create a program with some logical structure and implement rudimentary user interaction features, but the results and messages are limited in quality.			Minimal understanding of program design lacks structure and logic in their approach. User interface and interaction elements are poorly implemented, resulting in ineffective display results and messages. All attempt coding use static data or initialise data		Fails to demonstrate any understanding of program design principles and produces unusable code with no consideration for user interface or interaction.
Develop computer programs aligned to appropriate programming standards and	Consistently demonstrates exceptional expertise in developing programs in alignment with the		Adheres to advanced programming standards and conventions, showcasing a high level of expertise		Follows programming standards and conventions, skill fully employ functions and modules, maintain			Demonstrates a good understanding of programming standards, appropriately employ functions			Exhibits a basic grasp of programming principles, utilising user-defined functions to a limited extent.			Demonstrates minimal understanding of programming concepts and produces code with limited use		Fails to grasp basic programming principles and produces code without functions or

code conventions	highest programming standards and conventions, excel in employing complex functions and modules, maintain thorough documentation through meaningful comments, and innovate with creative and advanced programming solutions, setting a benchmark for code quality and conventions. The own selection option extensively implemented with complicated or creative or interesting providing meaningful insight	in employing functions and modules, well-documented with clear comments, and excel in utilising advanced programming techniques. The own selection option implemented with well-select or creative or interesting providing meaningful insight	well-structured comments throughout the code, and exhibit proficiency in using essential programming skills. The own selection option implemented with good selection to provide understandable or meaningful or new insight	and modules, maintain clear comments for improved comprehension, and follow conventions for code readability. The own selection option implemented with similar with the set requirement. No provide new understanding or insight	There are some comments in the code, but adherence to conventions is inconsistent, affecting code readability. The own selection option implemented with basic selection, provide basic information	of functions and modules. Comments are sparse, and code conventions are poorly followed. The own selection option implemented with duplicate with the fix requirements provide random information or incorrect information	modularisation. There are no comments, and the code lacks readability due to poor adherence to conventions.
Demonstrate the application of key concepts	Consistently demonstrates exceptional expertise in software implementation, present an outstanding project	Present an excellent understand of software implementation with well-designed project structure and consistently	Demonstrate a strong grasp of software implementation, present a comprehensive project structure, and present error-	Demonstrates a good understanding of software implementation, establish a project structure, and maintain relatively	Exhibits a basic understanding of software implementation, provide a rudimentary project structure, and manage to run	Limited understanding of software implementation, struggle to establish a project structure and often	Lacks a basic understanding of software implementation, unable to demonstrate any key concepts, and fails to

	structure and run the software to show the flawlessly results. The discussions of technical aspects are both comprehensive and innovative, provide highly sophisticated and well-justified the selections, setting the highest standards in software development.	produce error-free results when actual execute the software. The discussions of technical aspects are thorough and insightful, and provide in-depth justifications for the selections, indicating advanced expertise in software development.	free software when actual execute the software, discuss technical aspects confidently and provide well-justified the selections, showcasing proficiency in software development.	error-free software when actual run the software, discuss technical aspects, though not extensively or deep, and provide reasonable justifications for the selections.	the software to present actual result. The discussions of technical aspects are limited, and the selection justifications lack depth.	encounter errors in the software or no actual running program. The discussions of technical aspects and selection lack clarity or just read the line of code.	provide a project structure. Software does not run and cannot discuss technical aspects or justify implementation.

Learning Outcomes

This assessment will enable you to demonstrate in full or in part your fulfilment of the following learning outcomes identified in the Module Descriptor:

Living CV

As part of the University's Work Ready, Future Ready strategy, you will be expected to build a professional, Living CV as you successfully engage and pass each module of your degree.

The Living CV outputs evidenced on completion of this assessment are:

1. I can solve real-world problems by getting and analysing large amounts of data.
2. I can confidently write Python code to obtain, manipulate, and analyse real-world dataset.
3. I am experienced in using environment tool such as Jupyter notebook to design, implement, test and evaluate solutions.
4. I can conduct written and verbal presentations to share insights to audiences of varying levels of technical sophistication.

Please add these to your CV via the Living CV builder platform on Solent Futures Online Solent Futures Online

Important Information

Solent University Academic Regulations 2023-24

Late Submissions

You are reminded that:

i. If this assessment is submitted late i.e. within 7 calendar days of the submission deadline, the mark will be capped at 40% if a pass mark is achieved;
ii. If this assessment is submitted later than 7 calendar days after the submission deadline, the work will be regarded as a non-submission and will be awarded a zero;
iii. If this assessment is being submitted as a referred piece of work, then it must be submitted by the deadline date; any Refer assessment submitted late will be regarded as a non-submission and will be awarded a zero.

Assessment regulations

Extenuating Circumstances

The University's Extenuating Circumstances (EC) procedure is in place if there are genuine short term exceptional circumstances that may prevent you submitting an assessment. You are able to self-certify for up to two assessment dates in any semester without supporting evidence for an extension of up to seven calendar days for coursework or to defer an exam to the resit period.

Alternatively, if you are not 'fit to study' (or you have used up your two self-certification opportunities), you can request:

- an extension to the submission deadline of 7 calendar days, or
- a request to submit the assessment at the next opportunity, i.e. the resit period (as a Defer without capping of the grade).

In both instances you must submit an EC application with relevant evidence. If accepted under the university regulations there will be no academic penalty for late submission or non-submission

dependent on what is requested. You are reminded that EC covers only short-term issues (20 working days) and that if you experience longer term matters that impact on your learning then you must contact the Student Hub for advice.

Please find a link to the EC policy below:

Extenuating Circumstances

Academic Misconduct
Any submission must be your own work and, where facts or ideas have been used from other sources, these sources must be appropriately referenced. The University's Academic Regulations includes the definitions of all practices that will be deemed to constitute academic misconduct. You should check this link before submitting your work.

Procedures relating to student academic misconduct are given below:

Academic Misconduct

Ethics Policy
The work being carried out must be in compliance with the university Ethics Policy. Where there is an ethical issue, as specified within the Ethics Policy, then you will need an ethics release or ethics approval prior to the start of the project.

The Ethics Policy is contained within Section 2S of the Academic Handbook:

Ethics Policy

Grade marking
The University uses an alpha numeric grade scale for the marking of assessments. Unless you have been specifically informed otherwise your marked assignment will be awarded a letter/number grade. More detailed information on grade marking and the grade scale can be found on the portal and in the Student Handbook.

Grade Marking Scale

Guidance for online submission through Solent Online Learning (SOL)

Online Submission