Coding work sheets for python

Everything Counts: Assessment Briefing

MODULE TITLE:	Cracking the Code: Learning to Program				
PROGRAMME:	MASc in Interdisciplinary Practice: Methods	**CREDITS:**	15	**LEVEL:**	7
ASSESSMENT OVERVIEW:	This module has TWO (2) assessments.				
SUBMISSION DEADLINES:	Assessment #1: Friday 12 noon, Week 5 Assessment #2: Friday 12 noon, Week 7				
SUBMISSION METHOD:	ELECTRONIC VIA CORTEX. Please see submission details below.				
MODULE STAFF:	Matthew Brett				

Assessment #1

Formative / Summative	**Assessment method and limits**	**Weighting (% of whole module)**	**Module Learning Outcome(s) assessed by this task**	**Programme Learning Outcome(s) assessed by this task**
Summative	Coding work sheets for Python	40%	Understand the concepts and data structures of python (or another coding language) Write and debug code in a way that reflects best practice Automate routine computational tasks	Comprehensive understanding of the techniques to analyse linguistic, numerical, and image data using state of the art methods (i.e. use methods developed within relevant disciplines for analysing data associated with the three main systems of cultural representation).

Deadline and submission details:

You should submit your work by **Friday 12 noon, Week 5 of the module.**

- Submission: Your assessment must be submitted as one notebook

(.ipynb) file. Cortex has guidance about Submissions, including how to save and upload the notebook file.

Filename: You must put your student ID number (NOT your name) on your work and use the following naming convention when saving your work for submission: [cracking_the_code-assessment1-<studentnumber>], where "cracking-the-code" names the course, "assessment1" means this assessment, and you should replace "<studentnumber>" with your student number.

We may not be able to find and mark your submission, if you don't follow these instructions carefully.

Assessment Task description:

The assessment consists of a Jupyter notebook, in which you can mix text, code and plots. The notebooks consist of explanations and questions, sometimes in the form of code for you to fill in, sometimes in the form of text with free-text or multiple-choice answers.

We will give you a week to work on the notebook before submitting. Please remember that you are not allowed to share answers or work on your notebooks together. We will check for evidence that you have shared answers when we mark the notebooks.

The notebook will be highly structured. The code answers will often have some skeleton for you to start from and will usually have some tests for you to run to check you are on the right track. Each question in the notebook generally counts for the same marks, except where we indicate otherwise.

Further guidance about the assignment and opportunities to ask questions will be available as part of the teaching on the module. Please feel free to contact Matthew Brett as the module lead on matthew.brett@lis.ac.uk.

Please make sure that you are familiar with the additional support available to you via the Student Support team. Visit Cortex - Student Support for more information.

Marking criteria:

We mark the code questions with automated tests to see if you got the right result, although we give partial marks for answers that are close, or where you get the wrong answer because of a previous mistake. We mark your graphs and plots, and your free-text answers by hand according to pre-defined criteria.

The relationship of numerical marks to quality descriptors is from the LIS generic marking scale.

Assessment #2

Formative / Summative	Assessment method and limits	Weighting (% of whole module)	Module Learning Outcome(s) assessed by this task	Programme Learning Outcome(s) assessed by this task
Summative	Analysis of a bespoke dataset using coding and data science tools (1 x narrative description, 1 x executable code file, 1 x corpus of charts, 1 x dataset)	60%	Extract insights from data using the Pandas library Automate routine computational tasks Utilise a wide range of coding libraries Evaluate data science solutions to complex problems	Comprehensive understanding of the techniques to analyse linguistic, numerical, and image data using state of the art methods (i.e. use methods developed within relevant disciplines for analysing data associated with the three main systems of cultural representation). Capacity to critically apply state of the art methods from linguistic, numerical, and image-focused disciplines to data in the other modalities: (i.e. learn to numerically analyse linguistic and image data, linguistically analyse numerical and image data, and imagistically engage with linguistic and numerical data).

Deadline and submission details:

You should submit your work by **Friday 12 noon, Week 7 of the module.**

- Submission: Your assessment must be submitted as one notebook (.ipynb) file. Cortex has guidance about Submissions, including how to save and upload the notebook file.

Filename: You must put your student ID number (NOT your name) on your work and use the following naming convention when saving your work for submission: [cracking_the_code-assessment2-<studentnumber>], where "cracking-the-code"

names the course, "assessment2" means this assessment, and you should replace "<studentnumber>" with your student number.

We may not be able to find and mark your submission, if you don't follow these instructions carefully.

Assessment Task description:

The assessment consists of two Jupyter notebooks. We will give you a week to work on the notebooks before submitting. Please remember that you are not allowed to share answers or work on your notebooks together. We will check for evidence that you have shared answers when we mark the notebooks.

The first notebook will be a structured. The code answers will often have some skeleton for you to start from and will usually have some tests for you to run to check you are on the right track. Each question in the notebook generally counts for the same marks, except where we indicate otherwise.

The second notebook asks you for a more independent free-form analysis of a data set, where we ask you to explore the dataset and draw your own conclusions, with evidence, using the tools and libraries from the course.

Further guidance about the assignment and opportunities to ask questions will be available as part of the teaching on the module. Please feel free to contact Matthew Brett as the module lead on matthew.brett@lis.ac.uk.

Please make sure that you are familiar with the additional support available to you via the Student Support team. Visit Cortex - Student Support for more information.

Marking criteria:

For the first notebook, we use the same procedure as for your first assessment. We mark the code questions with automated tests to see if you got the right result, although we give partial marks for answers that are close, or where you get the wrong answer because of a previous mistake. We mark your graphs and plots, and your free-text answers by hand according to pre-defined criteria.

For the first notebook, the relationship of numerical marks to quality descriptors is from the LIS generic marking scale.

We mark the second notebook according to the following criteria:

	0-50%	50-75%	75-100
Questions	Questions overly simplistic, unrelated, or unmotivated	Questions appropriate, coherent, and motivated	Questions well motivated, interesting, insightful, and novel

Analysis	Choice of analysis is overly simplistic or incomplete	Analysis appropriate	Analysis appropriate, complete, advanced, and informative
Results	Conclusions are missing, incorrect, or not based on analysis Inappropriate choice of plots; poorly labelled plots; plots missing	Conclusions relevant, but partially correct or partially complete Plots convey information but lack context for interpretation	Relevant conclusions explicitly tied to analysis and to context Plots convey information correctly with adequate and appropriate reference information
Readability	Code is messy and poorly organized; unused or irrelevant code distracts when reading code. Variables and functions names do not helpful to understand code.	Code is reasonably well organized. There is little unused or irrelevant code, or this code has been moved out of the main project files. Variable and function names generally meaningful and helpful for understanding.	Code very well organized. No irrelevant or distracting code. Variable and function names have clear relationship to their purpose in the code. Code is easy to read and understand.
Writing	Explanation is illogical, incorrect, or incoherent	Explanation is correct, complete, and convincing	Explanation is correct, complete, convincing, and elegant

IMPORTANT NOTES AND FURTHER INFORMATION

Students are reminded that it is their responsibility to organise themselves so that they can submit on time, and they must familiarise themselves with LIS policy on late submission.

Extension/Late Penalty Information: Any work handed in after the deadline will be subject to penalties. Work handed in within 6 days of the deadline will be subject to a deduction of 10 percentage points per day and work handed in over 7 days after the deadline will be given a mark of zero.

Both these penalties apply unless there has been a prior agreement by the relevant staff member for an extension of the deadline or the submission is permitted late through an accepted extenuating circumstances claim. Your attention is drawn to the Extensions and Extenuating Circumstances policy available on the website and Cortex.

Feedback. The School's policy on feedback is that feedback on summative work will be provided no later than 4 weeks after the submission deadline. All marks are provisional until the Examination Board. Summative feedback Is normally provided via e-mail to your School e-mail account.

Self-Plagiarism. Students cannot submit any work for this assignment that they have submitted for any previous assignment unless it is appropriately referenced. Exceptions apply If this Is a resubmission of an earlier (failed) piece of work.

Authenticity and Academic Integrity: Plagiarism, cheating and collusion and attempting to obtain an unfair academic advantage are entirely unacceptable and not allowed. As such, these and any other forms of academic misconduct will be subject to disciplinary regulations.

In submitting assessments students accept responsibility for any copyright infringement, collusion, plagiarism or other form of academic misconduct. The School's Academic Misconduct Policy is available on the School website and on Cortex.

Your work will be analysed by plagiarism detection software.

Referencing. Your work must be referenced appropriately using a valid method of academic referencing highlighted by the School. Information on acceptable forms of referencing (such as the Harvard system of referencing) is available on Cortex.

Type of Assessment

- Individual: All work submitted for each element of this assessment must be your own individual work. Except for the group tasks you are not permitted to work with anyone else on these assessment tasks.
- Group work: If one or more tasks involves group work then please check the guidance on group work available on Cortex.