



Advanced Programming for Business Analytics

MS5114 2022-2023

Individual Assignment 2

Objective	The objective of this assignment is to assess your understanding of the object oriented programming in Python language.		
Lecturer	Name	Office	E-mail
	Dr Umair ul Hassan	CA369	umair.ulhassan@universityofgalway.ie
Marks Awarded	This assignment carries 25% of the overall marks for the module.		
Submission Process	<p>You should submit your completed assignment through Blackboard’s Assignment tool. Any member of a group can submit on behalf of the whole group.</p> <p>If you are unable to submit your assignment via Blackboard, please email it to your lecturer whilst also copying business@universityofgalway.ie in the same email and clearly state the issue that you have faced while uploading to Blackboard.</p>		
Assignment Deadline(s)	<p>8th March 2023 at 5:00pm Irish time:</p> <ul style="list-style-type: none">• Python code file <p>To avoid technical issues, it is strongly advised that you upload your submission well in advance of the deadline. You may submit at any time on any day prior to the deadline. You will have multiple attempts to submit, and last submitted version will be graded.</p>		
Late or No Submission	<p>Blackboard will record late submissions. Except in extenuating circumstances, late submissions will carry a penalty up to 24 hrs after the deadline, after which time any submissions will not be marked.</p> <p>Non submission of assignment will carry a mark of zero in determination of overall marks for this sitting. There is no opportunity to resubmit continuous assessment before the next offering of the module, should student(s) fail to submit by specified deadlines.</p>		
Deliverables	The Python code file, as “ <i>MS5114_Assignment2_YOURNAME_code.py</i> ” file.		
Academic Integrity	<p>Each module instructor reserves the right to follow up with a student by interview if there is any concern in relation to the integrity of the assignment.</p> <p>For any assignments not submitted via Turnitin, we reserve the right to check it using Turnitin where required.</p>		
Plagiarism	Plagiarism is the use of another person’s ideas or work without appropriate acknowledgement or credit. Plagiarism may be intentional or unintentional.		

	<p>Intentional plagiarism is the clear intent to pass off another person's work or ideas as your own for your own gain. Unintentional plagiarism may occur if you do not understand the appropriate way to acknowledge the source of your ideas and information.</p> <p>If you are unsure of the acceptable methods of acknowledgment you should refer to the University of Galway Code of Practice for Dealing with Plagiarism, consult with your lecturer or the library staff. Proven plagiarism is a very serious matter which may result in severe disciplinary action and/or exclusion from the University.</p> <p>Ensure all assignment submissions include a signed plagiarism statement.</p>
Referencing & Citation	<p>Correct referencing and citation avoids plagiarism. There are varying referencing styles available but the most popular is the Harvard Referencing Style. Details on how to reference journal articles, books, electronic information and various other supports is available from the NUI, Galway Library at the following link: http://libguides.library.nuigalway.ie/c.php?g=543943&p=4591416</p>
Blackboard Ally	<p>Blackboard Ally supports you to access more user-friendly file formats. Please contact the lecturer if you experience any accessibility issues for this module material. Should you have a visual impairment and require the document in another format, please contact the lecturer to explore alternative format options.</p>
Special Requirements	<p>If you are registered with the Disability Support Service (DSS), you will find recommended accommodations listed on your Learning and Educational Needs Summary (LENS) report. If the alternative assessment offered for this module does not fully meet the recommendations in your LENS report, please email your lecturer as well as whilst also copying business@universityofgalway.ie, stating clearly how you feel the recommendations are not being met. Please ensure you attach a copy of your LENS report to this email.</p>

MS5114 Individual Assignment 1 2022-2023

This is an individual assignment that is worth 25% of your grade.

1. Download the **assignment2.py** file attached;
2. Solve each problem in this file by completing the code as described in each question;
 1. You **CAN'T** change any of the pre-existing functions (the name and arguments of the function cannot be changed).
 2. You **CAN'T** remove any of the pre-existing classes, nor change its name.
 3. You **CAN'T** use the *"input"* function inside the functions that need implementation. If you want to test your functions with user input, you can do that inside a new function made for the purpose of your own tests. If you are unsure if you are doing something wrong with this function, then don't use *input()* function in your code.
 4. You **CAN'T** call any function in your file, **unless** the function is being called inside another function (e.g., *some_test_function()*), or inside the *if __name__ == "__main__"* block.
3. **Make sure** the code of your functions **returns exactly** the output that is described in each function comment, and that your classes are correctly implemented.
4. Make sure your code is **running without errors**.
5. Remember that **RETURN IS NOT THE SAME AS PRINT**, read carefully and make sure you are **returning** the correct values in each function.
6. Submit your code file (the same one you download and implemented the functions) for grading.

A few simple checks have been added in the *if __name__ == "__main__"* block of the script so that you can have an idea of what you should be checking to make sure your code is correct.