THE UNIVERSITY OF LAHORE

Faculty of Engineering and Technology Department of Technology Spring Semester 2024

Instructor's Name:	Asim Anwar	Subject:	Artificial Intelligence and Optimization
Subject Code:	CS13315	Assignment #:	02
Total Marks:	10	Assigning Date:	29-2-2024
Due Date& Time:	6-3-2024	_	

Instructions for Candidates

- i. Provide your original work reflecting your own "understanding".
- ii. Copying or reproducing others work may lead to zero credits in that particular question(s).

Python Basics: Import and Scope

Question #01

In this assignment you'll learn and practice how to use import to bring external code within the direct scope of the project.

Assignment Objectives:

- 1. Use the import statement to import a built-in package in Python.
- 2. Use the import statement to call a function present in another Python file.

Instructions

- 1. Open the file jsongenerator.py present inside project folder.
- 2. Import a built-in package called `json`
- 3. Import the following from a file called employee.py:
 - A function called `details`
 - Variables called 'employee_name', 'age' and 'title'

4.	4. Implement the `create_dict()` function that returns a dictionary given employee information.			
	Create and return a dictionary with three key-value pairs where:			
	- Keys are string variables: `"first_name"` `"age"` and `"title"` and their respective values are `employee_name`, `age` and `title` variables that we have imported from the employee module.			
	- Be sure to cast the values to the expected types.			
5.	Use a function called `dumps()` from the json module using dot notation and pass the `employee_dict` dictionary that we have created to it.			
	Return its value to a variable named `json_object`.			
	The format of the same should look like:			
	```variable = json.dumps(dict) ```			
6.	Complete the `write_json_to_file()` function			
	- Use a built-in function called 'open()' and pass the 'output_file' argument and '"w" to it.			
	Return the value of this function to a variable named newfile.			
	- Call a function called `write()` over this variable newfile. Pass the `json_object` variable you created in Step 5 inside it.			
	- Close this file by calling a built-in function `close()` directly on newfile. You don't need to pass any arguments here.			
7. Sav	e the files			
8. Ope	en the terminal to execute the files			
9. Run	the code using the command (within project directory)			

"python3 jsongenerator.py"