Lab 2.1 Python Development Exercises

Goal: The target of these exercises is to enable the student to practice and master programming skills during the course.

Instructions: You are required to submit programming assignments. More practice, more mastery. You must upload a PDF version of your source code and screen images for the tests execution as evidence of your work for these exercises.

Rubric Evaluation:

- Complete functionality 40%
- Correct functionality 30%
- Complete test cases 30 %

Programming Exercise	Description	Test Cases
4 – Python Failing	You need to create two functions to substitute str() and int(). A function called int_to_str() that converts integers into strings and a function called str_to_int() that converts strings into integers.	Provide 10 test cases for each function
	Examples:	
	int_to_str(4) → "4"	
	$str_to_int("4") \rightarrow 4$	
	int_to_str(29348) → "29348"	
5- Profit	You work for a manufacturer, and have been asked to calculate the total profit made on the sales of a product. You are given a dictionary containing the <i>cost price per unit</i> (in dollars), <i>sell price per unit</i> (in dollars), and the <i>starting inventory</i> . Return the total profit made, rounded to the nearest dollar.	Provide 10 test cases
	Examples	
	<pre>profit({ "cost_price": 32.67, "sell_price": 45.00, "inventory": 1200</pre>	
	<pre>profit({ "cost_price": 32.67, "sell_price": 45.00,</pre>	

```
profit({
    "cost_price": 225.89,
    "sell_price": 550.00,
    "inventory": 100
}) → 32411

profit({
    "cost_price": 2.77,
    "sell_price": 7.95,
    "inventory": 8500
}) → 44030

Notes

• Assume all inventory has been sold.
• Profit = Total Sales - Total Cost
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