

Learner Name

LEOPOLD BUNZA MUTERO

1. Did you use any AI tool(s) to assist with this assignment?

 No. Why not?

YES

- Yes. List the AI tool(s) you used and briefly describe the purpose for which you used the tool(s). (e.g., *brainstorming, research, drafting content*)

"I need to develop a Python program that creates a list of at least 400 workers dynamically, uses a for loop to generate payment slips for all workers, includes conditional statements and exception handling, and then convert this to R code. Can you help me structure this?"

2. To demonstrate effective AI use, please provide your initial prompt(s) and a brief description of the steps you took to refine and iterate on the AI's output for this

1. Reviewed initial code output and requested more robust exception handling for edge cases.
2. Asked for optimization of the worker list generation to ensure exactly 400+ workers with realistic data.
3. Requested clarification on R syntax equivalents for Python list operations and loop structures.
4. Iterated on the README file format to ensure clear installation and usage instructions for both languages.

3. List at least one source you consulted to verify the AI-generated content in your work.

- Python Official Documentation (<https://docs.python.org/3/>) - Verified syntax for exception handling and list operations
- R Documentation (<https://www.r-project.org/help.html>) - Confirmed R syntax for data frame operations and loop structures
- GeeksforGeeks Python Exception Handling guide - Cross-referenced exception handling best practices
- Stack Overflow discussions on Python-to-R code conversion - Validated translation accuracy