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| Book Name: | **Finite Abelian Groups, Elliptic Curves, Blockchain with Hashing and Graphs** |
| Manuscript Number: | **Ms\_BPR\_3842.6** |
| Title of the Manuscript:  | **A Python Programming Initiative for Finite Groups** |
| Type of the Article | **Book chapter** |

**General guidelines for the Peer Review process:**

This Book’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty’**, provided the manuscript is scientifically robust and technically sound.

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| PART 1: Review Comments |
| Compulsory REVISION comments | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | This manuscript holds significant value for the scientific community, particularly for mathematicians, educators, and computational scientists interested in group theory and its applications. By presenting Python-based implementations of key concepts, it bridges the gap between abstract algebraic theory and computational practice, making complex topics more accessible to students and researchers |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Exploring Finite Groups through Python Programming: Algorithms and Applications |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The manuscript does not appear to include an abstract in the provided document, which is a critical omission for publication |  |
| **Are subsections and structure of the manuscript appropriate?** | No IntroductionNo Theoretical BackgroundNo Results and discussionNo conclusion |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | This manuscript demonstrates scientific correctness and technical soundness by accurately implementing key concepts of finite group theory through Python programming. The algorithms and examples provided are grounded in well-established mathematical principles, such as Cayley’s Table, cosets, and Lagrange’s theorem. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The manuscript includes a comprehensive list of references, covering foundational works in group theory and algebra. However, many of the references are either outdated or not directly relevant to the computational focus of the manuscript. Recent references that discuss the integration of programming with algebra or computational group theory are notably absent. Adding such references would enhance the manuscript's credibility and relevance |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | While the content is informative, the text often contains grammatical errors, awkward phrasing, and inconsistent formatting.Examples like "G i s Abel ian" should be corrected to "G is Abelian."Original: "Cayley’s Table i s" should be corrected to "Cayley’s Table is an essential tool in group theory, enabling the visualization of group operations. Below, we demonstrate its construction using Python." |  |
| Optional/General comments | Including diagrams, flowcharts, or tables to supplement the Python outputs will make the content more engaging and easier to understand. |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: |  |
| Department, University & Country |  |