National Research University Higher School of Economics

Faculty of Computer Science

Bachelor’s Programme “Data Science and Business Analytics”

**Review on a Research Project**

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| On the topic | Factorial of the Fractions and the Gamma Function |
|  | Topic of a project |

Completed by a Student in \_\_2\_\_ year, group \_БПАД211\_

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| Keseli Timur Gokhanovich |
| Full name |

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| № | **Evaluation Criteria** | **Score (on a 10-point scale)** | **Commentary on a score for criteria (if any)** |
| 1. | Scientific novelty | 1 | it was not a scientific research project but a project for educational purposes. |
| 2. | Relevance of the work | 5 |  |
| 3. | Completeness of information sources and existing results review and comparison with them | 7 |  |
| 4. | Complexity and volume of work performed | 10 |  |
| 5. | The quality of the text, clarity of the narration | 10 |  |
| 6. | Sticking to the work plan, constant interaction with the Supervisor | 10 |  |

Plagiarism evaluation from the Antiplagiat System (cannot be higher than 20%).

The place for the explanatory note from the Supervisor in case there is an exceeding the plagiarism limit (shall include the recommendation for admission or non-admission for final presentation of a project):

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Text commentary from the Supervisor on a student’s work (necessary to complete):

In this project, the author aims to show how to extend the notation of factorial to real numbers. The approach is based on elementary properties of the factorial function, which can be easily extended to any numbers. The author also uses the notion of harmonic series and shows some connections with factorial functions. All of these allow him to solve the extending problem, avoiding ad hoc definitions and concepts. Despite the elementary spirit of the approach, the project looks strictly science. It is worth to note that the author also remark connection with modern superstring theory. In my opinion, the project deserves ''excellent'' mark (A).

**FINAL SCORE OF THE SUPERVISOR** (out of 10) \_\_\_\_\_\_\_\_\_10\_\_\_\_\_\_\_

*(Final score is the overall evaluation of the work taking into account the criteria, not the arithmetic mean of the criteria)*

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| Supervisor |  |  | Lopatkin Viktor Evgenievich, Ph. D. of Physico-Mathematical Sciences, Professor, Higher School of Economics |
|  | *(signature)* |  | *(Full name, degree, position,, place of work)* |

Date:

**Rating compliance scale in HSE University**

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| **Score (on a 10-point scale)** | **European grades scale** | |
| 10 | A + | Excellent |
| 9 | A | Very good |
| 8 | A - | Very good |
| 7 | B + | Good |
| 6 | B - | Good |
| 5 | C + | Satisfactory |
| 4 | C - | Satisfactory |
| 3 | F | Fail |
| 2 | F | Fail |
| 1 | F | Fail |