**Educational Establishment**

**«Francisk Skorina Gomel State University»**

Faculty of Physics and Information Technologies

Department ASIP

**Approved**

Head of the Department ASIP \_\_\_\_\_\_\_\_\_ Viktar Liauchuk

November 02, 2020

**ASSIGNMENT**

**for the course project**

Student Khvesiuk Daniil

1 The topic of the diploma project Development of a chess game according to design patterns

2 The project deadline is December 15, 2020.

3 Source data for the course project

1 Романчик, В. Java. Методы программирования / В. Романчик, И. Блинов. – Minsk: Four Quarters, 2013. – 896 p.

2 Savitch, W. The Java Language. Programming Course / W. Savitch. – M.: Williams, 2015. – 928 p.

3 Design Patterns in Java [Electronic resource]. M., 2014 – 2020. URL: <https://refactoring.guru/design-patterns/java>. — Date of request: 12.12.2020.

4 Design Patterns in Java Tutorial – Tutorialspoint [Electronic resource]. M., 2016 – 2020. URL: https://www.tutorialspoint.com/design\_pattern/index.html. ­­­­—Date of request: 11.12.2020.

4 List of issues for developing

1 Creating classes from piece package

2 Implementation of template pattern

3 Creating classes from board package

4 Implementation of factory pattern

5 Creating classes from game package

6 Implementation of mathematical logic behind moves

7 Creating Runner class

5 Work schedule

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| **Stage number** | **Issue content** | **Deadline  for stage submission** | **State of a stage** | **Signature  of the advisor** |
| 1 | Problem formulation | 06.11.2020 | Completed |  |
| 2 | Creating classes from piece package | 10.11.2020 | Completed |  |
| 3 | Implementation of template pattern | 14.11.2020 | Completed |  |
| 4 | Creating classes from board package | 18.11.2020 | Completed |  |
| 5 | Implementation of factory pattern | 22.11.2020 | Completed |  |
| 6 | Creating classes from game package | 26.11.2020 | Completed |  |
| 7 | Implementation of mathematical logic behind moves | 30.11.2020 | Completed |  |
| 8 | Creating Runner class | 04.11.2020 | Completed |  |
| 9 | Creating documentation | 08.12.2020 | Completed |  |

Date of issue of the assignment October 25, 2020

Research advisor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Viktar Liauchuk

The assignment was accepted for implementation by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Khvesiuk Daniil