ReadMe:

How to run the Chessboard:

All java file are written inside the Final Chess Board 2\Final Chess Board 2\src\main\java

Execution:

  - Run the main method in the `ChessBoard.java` file.

Input:

  - Provide inputs for White Pieces, Black Pieces, and the Piece to move.

  - White Pieces Input Format: Qa1, Pc3, Bc4, Kg4, Pf2, Rh2, Nh4

  - Black Pieces Input Format: Rc8, Qe8, Pa7, Nb6, Kd6, Bf6, Pg6

  - Piece to Move Format: Provide the position of the piece to move, for example, Nb6.

Output:

  - The program will display the current state of the chessboard.

  - It will then print the valid moves of the given piece on the chessboard.

  - Lastly, it will print the valid moves along with the positions of the other chess pieces on the board.

Example Inputs:

  White Pieces: Qa1, Pc3, Bc4, Kg4, Pf2, Rh2, Nh4

  Black Pieces: Rc8, Qe8, Pa7, Nb6, Kd6, Bf6, Pg6

  Piece to Move: Nb6

Example Output

  Legal Moves for Nb6: c4, d5, a4, d7, a8

Once the output is displayed, the program terminates.

The program has not covered the draw match.

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:L:\int
Welcome to Chess Board Move Validation :)
Enter white pieces: Qa1,Pc3,Bc4,Kg4,Pf2,Rh2,Nh4
Enter black pieces: Rc8,Qe8,Pa7,Nb6,Kd6,Bf6,Pg6
PIECE TO MOVE: Nb6
```

```
   +---+---+---+---+---+---+---+---+
8  |   |   | ♜ |   |   | ♛ |   |   |   |
   +---+---+---+---+---+---+---+---+
7  | ♟ |   |   |   |   |   |   |   |
   +---+---+---+---+---+---+---+---+
6  |   | ♞ |   |   | ♚ |   | ♝ | ♟ |   |
   +---+---+---+---+---+---+---+---+
5  |   |   |   |   |   |   |   |   |
   +---+---+---+---+---+---+---+---+
4  |   |   | ♗ |   |   |   |   | ♔ | ♘ |
   +---+---+---+---+---+---+---+---+
3  |   |   | ♙ |   |   |   |   |   |
   +---+---+---+---+---+---+---+---+
2  |   |   |   |   |   | ♙ |   | ♖ |
   +---+---+---+---+---+---+---+---+
1  | ♕ |   |   |   |   |   |   |   |
   +---+---+---+---+---+---+---+---+
     a   b   c   d   e   f   g   h
LEGAL MOVES FOR Nb6: c4,d5,a4,d7,a8
Chess Board Legal Moves
   +---+---+---+---+---+---+---+---+
8  | * |   | ♜ |   |   | ♛ |   |   |   |
   +---+---+---+---+---+---+---+---+
7  | ♟ |   |   | * |   |   |   |   |
   +---+---+---+---+---+---+---+---+
6  |   | ♞ |   | ♚ |   | ♝ | ♟ |   |
```

```
      +---+---+---+---+---+---+---+---+
  3 | |   | ♟ |   |   |   |   |   |
      +---+---+---+---+---+---+---+---+
  2 | |   |   |   |   | ♟ |   | ♖ |
      +---+---+---+---+---+---+---+---+
  1 | ♛ |   |   |   |   |   |   |   |
      +---+---+---+---+---+---+---+---+
       a   b   c   d   e   f   g   h
LEGAL MOVES FOR Nb6: c4,d5,a4,d7,a8
Chess Board Legal Moves
      +---+---+---+---+---+---+---+---+
  8 | * |   | ♖ |   | ♕ |   |   |   |
      +---+---+---+---+---+---+---+---+
  7 | ♟ |   |   | * |   |   |   |   |
      +---+---+---+---+---+---+---+---+
  6 |   | ♞ |   | ♚ |   | ♝ | ♟ |   |
      +---+---+---+---+---+---+---+---+
  5 |   |   |   | * |   |   |   |   |
      +---+---+---+---+---+---+---+---+
  4 | * |   | * |   |   |   | ♔ | ♘ |
      +---+---+---+---+---+---+---+---+
  3 |   |   | ♟ |   |   |   |   |   |
      +---+---+---+---+---+---+---+---+
  2 |   |   |   |   |   | ♟ |   | ♖ |
      +---+---+---+---+---+---+---+---+
  1 | ♛ |   |   |   |   |   |   |   |
      +---+---+---+---+---+---+---+---+
       a   b   c   d   e   f   g   h


Process finished with exit code 0
```

Run Test cases:
All the test cases are written inside the Final Chess Board 2\Final Chess Board 2\src\test\java