Dice Roll Game

**Overview**

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| The rules of this game are simple. First, the program “rolls dice” which means a random number from 1 to 6 is generated but not shown to the user. The user then has 3 tries to guess what number was on the die. | Console App |

**Main application workflow**

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| When the application starts, it shall generate a number from 1 to 6 and then print: |
| Dice rolled. Guess what number it shows in 3 tries. |
| The user must select a number. If the number equals the generated number, “You win” is printed to the console. If not, “Wrong number” is printed, and the user has another chance. The user has 3 chances. If they all are unsuccessful, “You lose” is printed to the console, and the program closes after any key is pressed. |

**Selecting the number by the user**

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| Scenario | User action | Result |
| Sunny day (the number equals the generated number) | The user enters a number from 1 to 6, which is equal to the number initially generated by the program. | “You win” is printed to the console. After the user presses any key, the program is closed. |
| Sunny day (the number does not equal the generated number), and the user **did not** use all 3 chances. | The user enters a number that is **not** equal to the number initially generated by the program. (Even if the number is outside the 1-6 range, it is still a valid number, but a bad guess. One chance is lost). | “Wrong number” is printed to the console. “Enter number:” is printed to the console again. The user has one chance less left. |
| Sunny day (the number does not equal the generated number), and the **user used 3 chances already**. | The user enters a number that is **not** equal to the number initially generated by the program. | “Wrong number” is printed to the console, followed by “You lose” message. After the user presses any key, the program is closed. |
| Incorrect or empty input | User does not enter any valid number (for example, enters “abc”). | “Incorrect input” is printed to the console. “Enter number:” is printed to the console. No chance is being used. |