HW4

Number with Different Basis

- 1- Write code to convert a decimal number into its binary representation.
- 2- Write code to convert a binary number into its hexadecimal representation.
- 3- Write code to convert a hexadecimal number into its binary representation

Note: You need to include the following:

- 1. Prompt the user to enter the required input.
- 2. Ensure that the input provided is valid.
- 3. If the input is invalid, prompt the user to enter again until valid input is received, using a while loop.
- 4. Valid input criteria should be specified according to the requirements of each task (e.g., valid input ranges for binary numbers, decimal numbers, etc.).