B\_D

decimal\_list = []

# Input the binary number in dotted format

binary\_number = input("Enter a binary number (e.g., 11000000.10101000.00000001.00000001): ")

# Split the input string into parts based on "."

for part in binary\_number.split("."):

    # Convert each binary part to a decimal integer

    decimal\_part = int(part, 2)

    # Append the decimal part to the list

    decimal\_list.append(decimal\_part)

# Join the decimal parts with a '.' and display the result

decimal\_result = ".".join(map(str, decimal\_list))

print(f"The decimal number is: {decimal\_result}")

D\_B

binary\_list = []

# Input the dotted decimal number

decimal\_number = input("Enter a dotted decimal number (e.g., 192.168.1.1): ")

# Split the input string into parts based on "."

for part in decimal\_number.split("."):

    # Convert each part to an integer

    part\_as\_int = int(part)

    # Convert the integer to binary and pad it to 8 bits

    binary\_part = format(part\_as\_int, '08b')

    # Append the 8-bit binary part to the list

    binary\_list.append(binary\_part)

# Join the binary parts with a '.' and display the result

binary\_result = ".".join(binary\_list)

print(f"The 8-bit binary number is: {binary\_result}")