import ipaddress  
  
  
def in\_range(n):  
 if n >= 0 and n <= 255:  
 return True  
 return False  
  
  
def has\_leading\_zero(n):  
 if len(n) > 1:  
 if n[0] == "0":  
 return True  
  
 return False  
  
  
def isValid(s):  
  
  
 s = s.split(".")  
 if len(s) != 4:  
 return 0  
 for n in s:  
  
 if has\_leading\_zero(n):  
 return 0  
 if len(n) == 0:  
 return 0  
 try:  
 n = int(n)  
  
 if not in\_range(n):  
 return 0  
 except:  
 return 0  
 return 1  
  
  
def hexadecimal(ip):  
 parts = ip.split('.')  
  
  
 hexNumber = format(int(parts[0]), '02X') \  
 + format(int(parts[1]), '02X') \  
 + format(int(parts[2]), '02X') \  
 + format(int(parts[3]), '02X')  
 return hexNumber  
  
  
def binary(ip):  
 parts = ip.split('.')  
  
  
 binaryNumber = format(int(parts[0]), '08b') \  
 + format(int(parts[1]), '08b') \  
 + format(int(parts[2]), '08b') \  
 + format(int(parts[3]), '08b')  
 return binaryNumber  
  
  
def octal(ip):  
 parts = ip.split('.')  
  
  
 octalNumber = format(int(parts[0]), '03o') \  
 + format(int(parts[1]), '03o') \  
 + format(int(parts[2]), '03o') \  
 + format(int(parts[3]), '03o')  
 return octalNumber  
  
  
def decimal(ip):  
 parts = ip.split('.')  
  
  
 decimalNumber = format(int(parts[0]), '03d') \  
 + format(int(parts[1]), '03d') \  
 + format(int(parts[2]), '03d') \  
 + format(int(parts[3]), '03d')  
 return decimalNumber  
  
  
def conversions(ip):  
 a = decimal(ip)  
  
  
 b = binary(ip)  
 c = octal(ip)  
 d = hexadecimal(ip)  
 return a, b, c, d  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 print("Input 10 ipv4 addresses")  
 list = []  
 finalLine = []  
 n = 10  
for i in range(0, n):  
 ip = input()  
 if ((isValid(ip)) == True):  
 list.append(ip)  
 elif ((isValid(ip)) == False):  
 ip = format(ipaddress.ip\_address((ip)))  
 list.append(ip)  
  
textfile = open("conversion.txt", "w")  
  
for element in list:  
 textfile.write(element + "\n")  
textfile.close()  
  
with open('conversion.txt') as f:  
 lines = f.readlines()  
  
for line in lines:  
 linePart = line.split("\n")  
 finalLine.append(linePart[0])  
f.close()  
  
print(f"The first IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[0])} \n")  
print(f"The second IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[1])} \n")  
print(f"The third IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[2])} \n")  
print(f"The fourth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[3])} \n")  
print(f"The fifth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[4])} \n")  
print(f"The sixth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[5])} \n")  
print(f"The seventh IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[6])} \n")  
print(f"The eighth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[7])} \n")  
print(f"The ninth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[8])} \n")  
print(f"The tenth IP address in Decimal, Binary, Octal and hexadecimal format is {conversions(finalLine[9])} \n")