**Code:**

def checkIP():

    ip=input("Enter IP: ")

    lengthIP=len(ip)

    if(lengthIP>15 or lengthIP<7):

        print("Invalid IP")

        return

    try:

        arrIP=list(map(int,ip.split('.')))

    except:

        print("Enter only numbers")

        return

    for i in arrIP:

        if(i<0 or i>255):

            print("Invalid IP")

            return

    first=f'{arrIP[0]:08b}'

    if(first[0]=='0'):

        print("This is a class A IP")

    elif(first[1]=='0'):

        print("This is a class B IP")

    elif(first[2]=='0'):

        print("This is a class C IP")

    elif(first[3]=='0'):

        print("This is a class D IP")

    else:

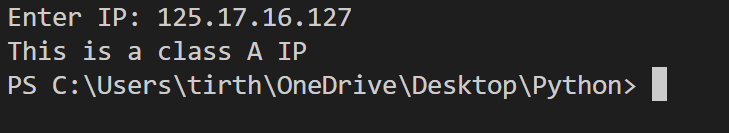
        print("This is a class E IP")

        return

if \_\_name\_\_=='\_\_main\_\_':

    checkIP()

**Output:**

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