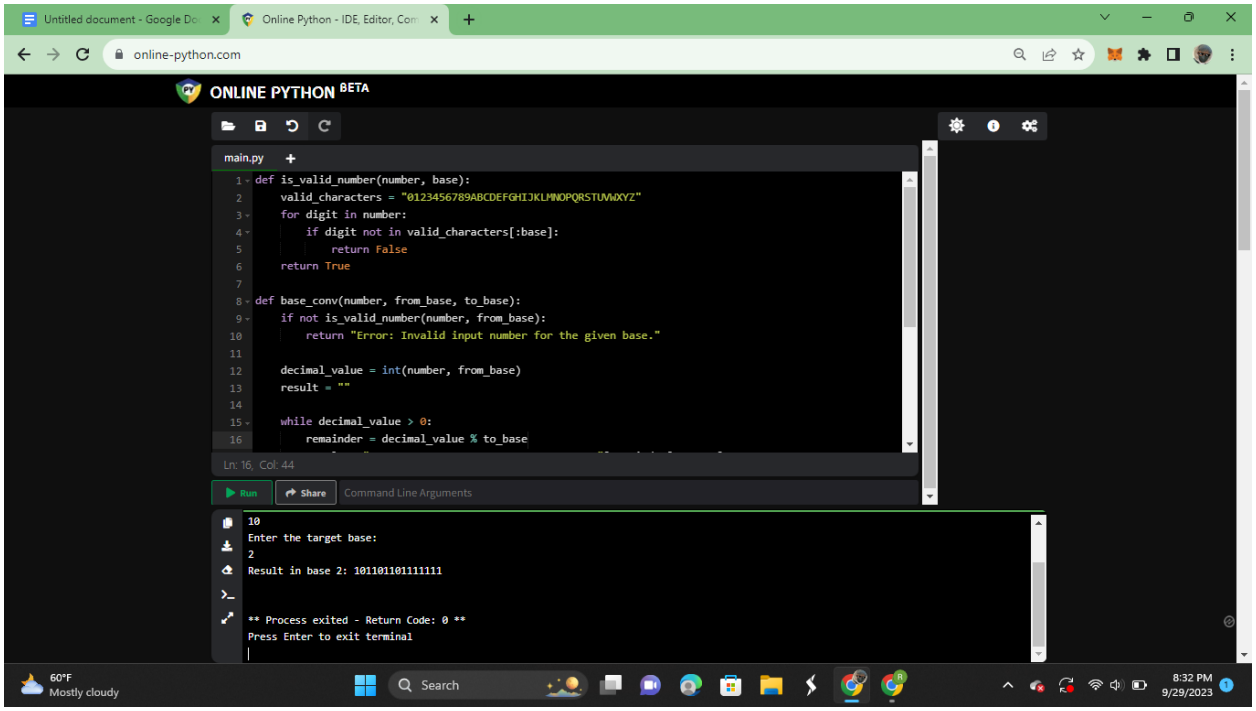
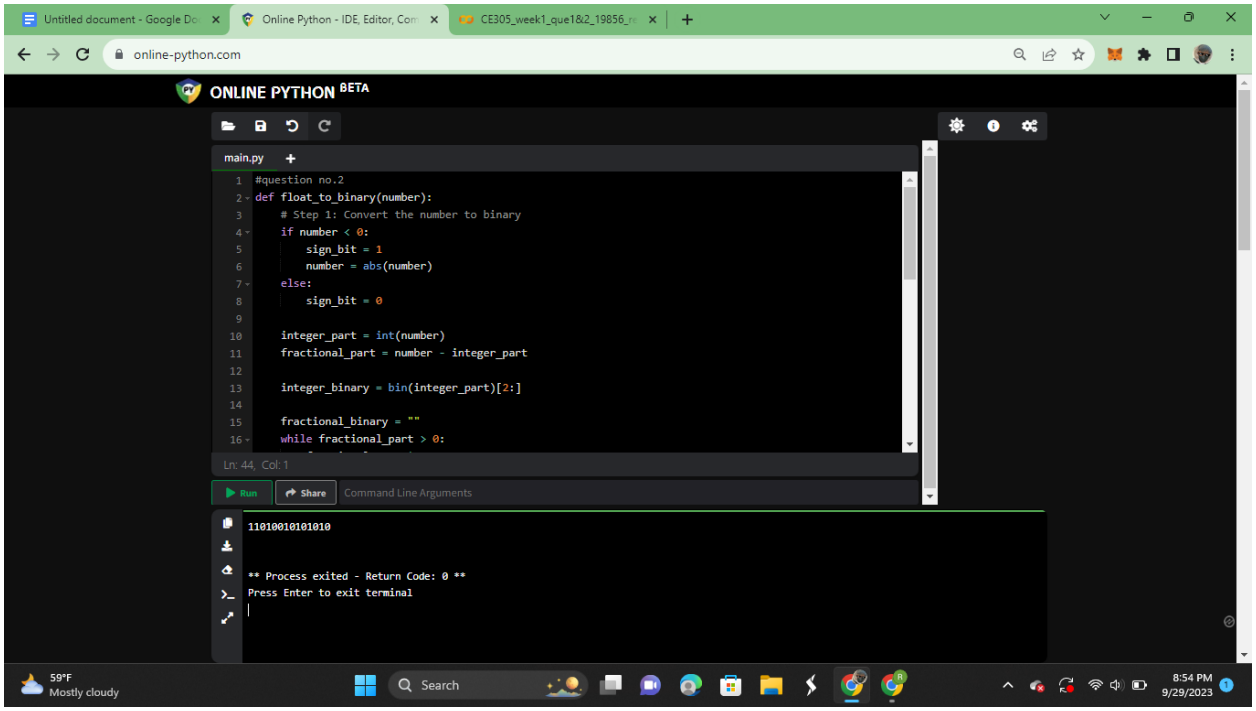
1. Write the program in any computer language to convert the given number from any base to a different base. The program needs to verify the validity of the given number first. If it is invalid, please prompt error information. Otherwise, print the correct result in the new base. For instance, as follows is the def function "base_conv" in Python.



2.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main.py
#question no.2
def float_to_binary(number):
# Step 1: Convert the number to binary
if number < 0:
sign_bit = 1
number = abs(number)
else:
sign_bit = 0
integer_part = int(number)
fractional_part = number - integer_part
integer_binary = bin(integer_part)[2:]
fractional_binary = ""
while fractional_part > 0:
Ln: 44, Col: 1
Run
Share
Command Line Arguments
11010010101010
** Process exited - Return Code: 0 **
Press Enter to exit terminal
59°F
Mostly cloudy
Search
8:54 PM
9/29/2023