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#LAB 6 Question 1-a
year = int(input('Please enter your birth year: '))
while year <= 2021:
   if year == 2021:
       print(year)
   else:
       print(year, end=", ")
   year = year + 1
print() #for good looks only not important to answers
#LAB 6 Question 1-b
age = 0
birth_year = 1998
current_year = 2021
print('I was born in ' + str(birth_year) + ' and currently it is ' + str(current_year) + '.')
while birth_year + 1 <= current_year:</pre>
   age = age + 1
   birth_year = birth_year + 1
print('Therefore, my age is ' + str(age) + '.')
print() #for good looks only not important to answers
#LAB 6 Question 2
rows = 7
for i in range(0, rows):
   for j in range(0, i + 1):
       print("*", end=' ')
   print("\r") # Alternatively '\n' can be used here.
for i in range(rows, 0, -1):
   for j in range(0, i - 1):
       print("*", end=' ')
   print("\r") # Alternatively '\n' can be used here.
print() #for good looks only not important to answers
#LAB 6 Question 3-a
prime_counter = 0
while True:
   number = int(input('Enter a number: '))
   flag = True
   if number < 0:
       # break while loop
       break
   elif number == 0 or number == 1:
       flag = False # not prime
   elif number == 2:
        flag = True # prime
   else:
       for i in range(2, number):
           if (number % i) == 0:
               flag = False # not prime
               break
   if flag:
       prime_counter = prime_counter + 1
print()
print('Count of the prime numbers: ' + str(prime_counter))
# Alternative solution with for-else
#while True:
# number = int(input('Enter a number:'))
   if number > 0:
        if number > 1:
            # check for factors
            for i in range(2, number):
               if (number % i) == 0:
                    # The number is not prime just break for loop here.
                    break
            else:
                # The number is prime, therefore, increase primeCounter by 1.
                prime_counter = prime_counter + 1
        else:
            # The number is not prime just continue to check other numbers from the user.
            continue
    else:
        break
#print()
#print('Count of the prime numbers: ' + str(prime_counter))
print() #for good looks only not important to answers
#LAB 6 Question 3-b
sum_of_numbers = 0
for i in range(1, 11):
   number = int(input('Enter an integer: '))
   if number > 0:
       sum_of_numbers = sum_of_numbers + number
   else:
        continue
print()
print('Sum of the positive integers: ' + str(sum_of_numbers))
print() #for good looks only not important to answers
#LAB 6 TO-DO @ Home
# Part a
number = 2
ending_number = 50
sum_of_numbers = 0
while number <= ending_number:</pre>
   sum_of_numbers = sum_of_numbers + number
   number = number + 3
print('Sum of the numbers: ' + str(sum_of_numbers))
print() #for good looks only not important to answers
# Part b
number = 2
ending_number = 50
sum_of_numbers = 0
# Check the following reference to see the alternative usages of range function:
# https://docs.python.org/3/library/stdtypes.html#range
for i in range(number, ending_number+1, 3):
   sum_of_numbers = sum_of_numbers + i
print('Sum of the numbers: ' + str(sum_of_numbers))
```