1. Write a C++ program to print a - z using a loop.

(a) char letter = 'a';
int i = (int) letter; 11:-97
int i = 177

for (int i= (int) letter; i c= 122; i++)

{
cont << (char); << enal;

while (letter!='z')

Ecout < cletter « ani;

Letter ++;

Letter ++;

2. Write a C++ program to continue taking integer inputs from the user until the user gives 0. Your program should compute and display the count of positive and negative numbers entered.

int number, positive count-of regeline Gent of

warriable)

while (true)

number - (int)

positive Count (int)

(i

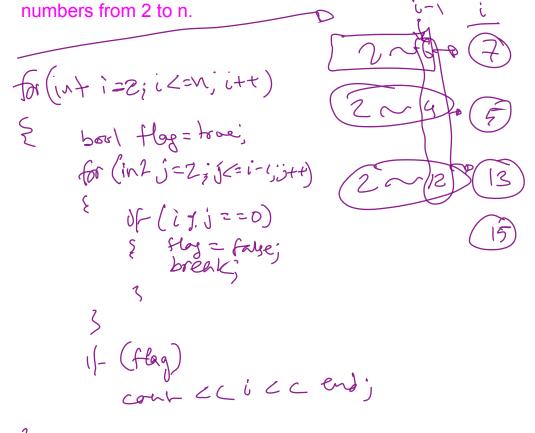
3. Write a C++ program that takes a positive integer input (e.g., n) from the user through the keyboard and computes the sum from 1 to n.

iel ien sum:0

Sum:0

Sum = Sum + i

4. Write a C++ program that takes a positive integer input (e.g., n where n > 3) from the user through the keyboard and displays all the prime



5. Write a C++ program that takes a positive integer number and computes the sum of all the digits using a loop.

Example: $82549 \rightarrow 8 + 2 + 5 + 4 + 9 = 28$; $8888 \rightarrow 8 + 8 + 8 + 8 = 32$; $2,147,483,648 \Rightarrow 2+1+4+7+4+8+3+6+4+8 = 47$

multer of Sum = 0, dist of

while (number 1 = 0)

E u q s sq s

Sum = sumber q, lo;

Is sum = sum to dist;

I sum = sum to dist;

I

6. Write a program to print out all Armstrong numbers between 1 and 500. If the sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number. For example, 153 = (1 * 1 * 1) + (5 * 5 * 5) + (3 * 3 * 3)