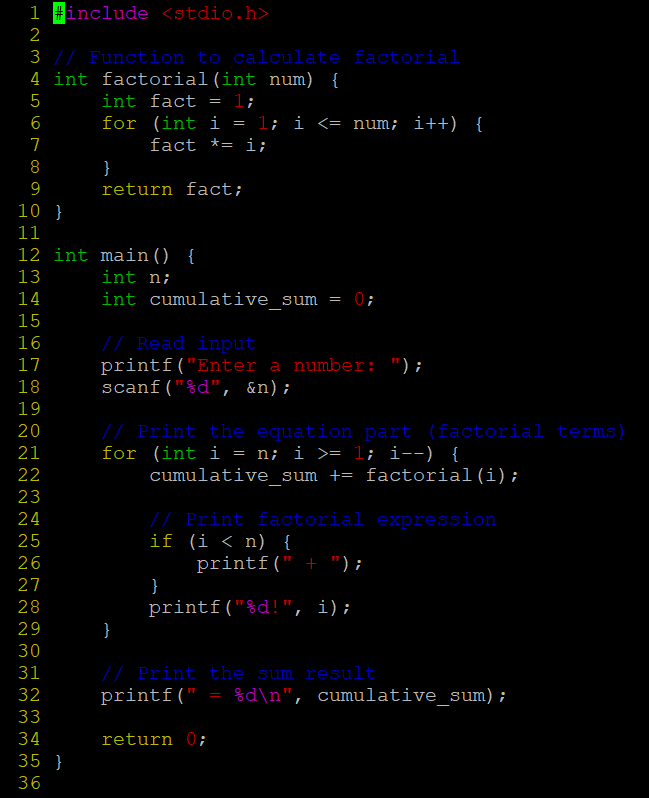
**For While Do while Break Continue Assignment**

1. WAP to read a number n and to display the cumulative sum of factorial of all numbers up to n . (use for or while)

Input: 4

Output: 4!+3!+2!+1! = 32



OUTPUT:

A black background with numbers and symbols

Description automatically generated

1. Write a program to accept “N” integers from the user. “N” also has to be taken from the user. Take the count of +ve numbers, -ve numbers and 0’s.

However the program should not accept a non-integer value. If a non-integer value is entered, used must be asked to re-enter.

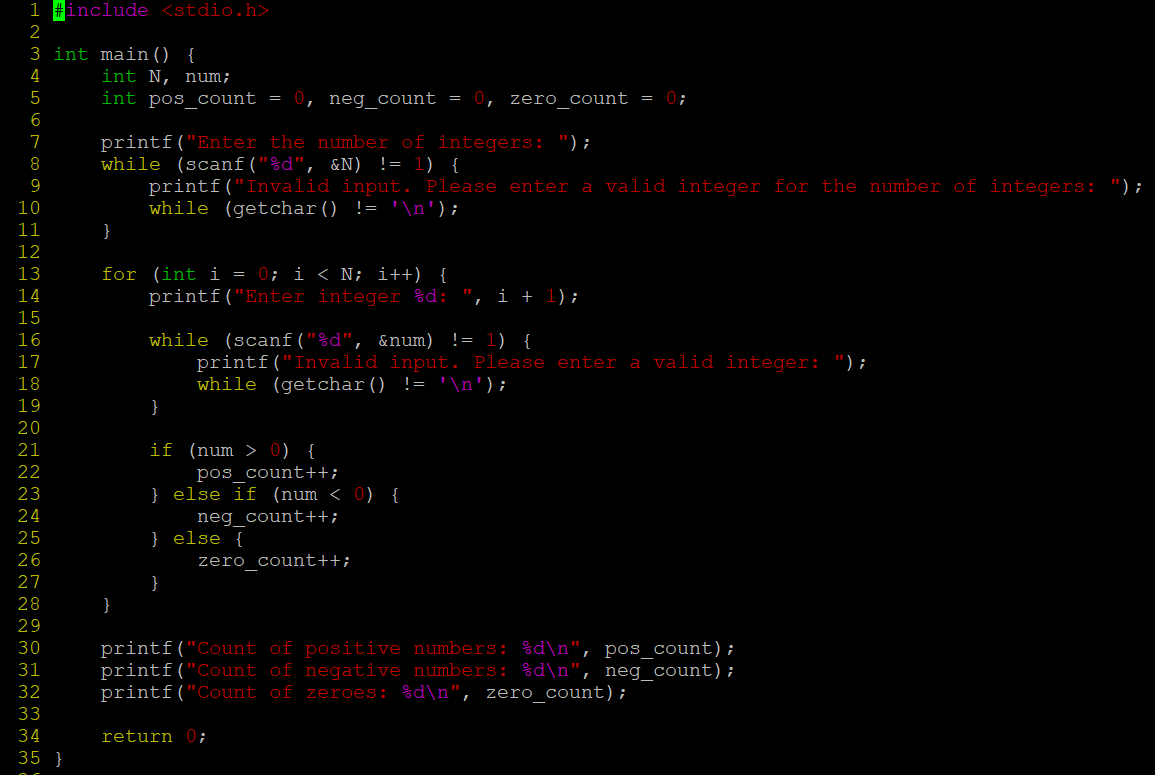
[Hint:

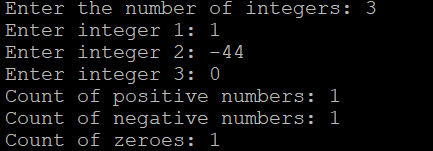
* 1. Use the return value of scanf to find out whether the user has entered integer or not.
  2. You also will have to clear the input buffer before taking the next input.

For clearing the input buffer, use one of the following approaches

* while (getchar() != '\n'); // keep reading till newline and discard the characters
* scanf(“%\*s”); // read and discard one string

]





1. Write a program to continuously read a string of maximum length 80 chars, End the program if string is END, else convert to upper case, display and continue. (use while)



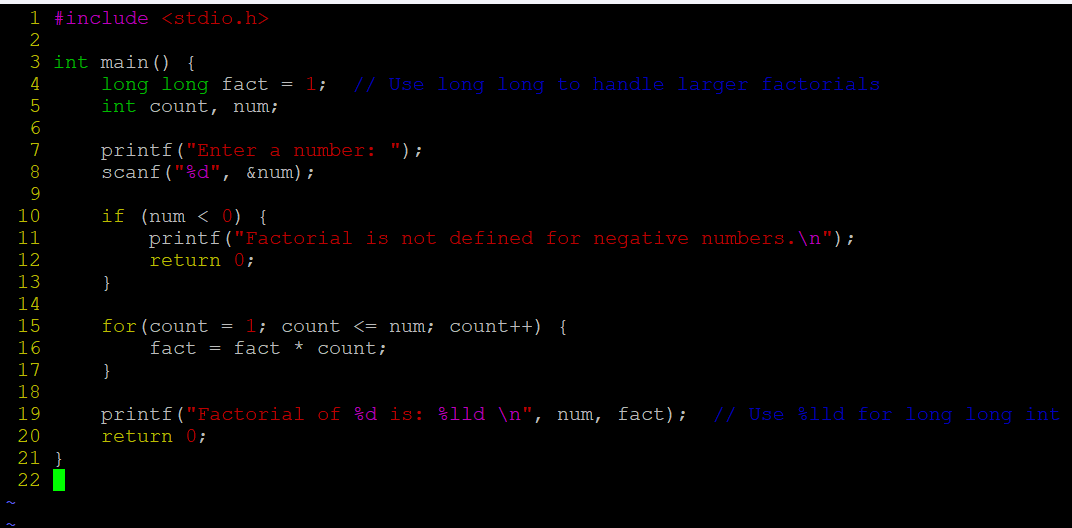
OUTPUT:

A screen shot of a computer

Description automatically generated

1. Refer the program “value\_out\_of\_domain.c”. Try to run the program with a large value say 255. Check the output? Is it correct? Fix the issue observed.

What improvements do you suggest?



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Description automatically generated

1. Refer the code below. It does not output anything. Fix it.

#include <stdio.h>

int main()

{

int x = 5;

while (x > 0);

{

printf( "Value of x :%d \n", x);

x--;

}

return 0;

}

Corrected code:

A computer screen with colorful text

Description automatically generated

Correction: remove the semicolon after the while loop.

Output:

A screenshot of a computer screen

Description automatically generated

6.Analyse the code, identify the issues

#include <stdio.h>

int main()

{

float cnt = 0, num = 1000;

do

{

printf ("\n%d\n%d", num,cnt);

num /= cnt;

} while (cnt --); /\* End of while \*/

return 0;

}

A computer screen with text and numbers

Description automatically generated

Correction:

The datatype given in main is float and in printf statement the called the int datatype %d so the correct datatype to be given is %f.

OUTPUT:

