/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\* Lab 3 Question 9 \*/

/\* Name : Alberto Ramirez \*/

/\* Student ID : 1186065 \*/

/\* Date: 3/17/21 \*/

/\* This Program employs a do-while function \*/

/\* in order to calculate the sum of digits \*/

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

#include<stdio.h>

int main()

{

//Declaration

int num = 0, digit = 0, count = 0, sum = 0;

//Data/Input

printf("Enter the number : ");

scanf("%d", &num);

digit = num;//Pass the reference value of num to digit.

//Processing/Calculation

while (digit != 0 && digit != 31999);//While loop function will conduct the calculation untill the cound value reached the sentinel value.

{

count = digit % 10;

sum = sum + count;

digit = digit / 10;

}

//Output

printf("The sum of its digits : %d \n", sum);

return 0;

}