SUM-OF-DIGITS.CPP source

```
01:
02: /* Program to input a number and find the sum of its digits */
03:
04: #include<iostream>
05: using namespace std;
06:
07: int main() {
08:
09:
       int number, sum_of_digits=0;
10:
        cout<<"Enter a number:";</pre>
11:
12:
        cin>>number;
13:
14: // The content of the loop will be
15: // executed as Long as number > 0
16: while(number>0) {
        //add the 1's digit of the number to sum_of_digits
//trick: division by 10 and take reminder gives 1's digit
sum_of_digits+=number%10;
//divide number by 10 (ignore decimals. ie integer division)
//so the 10's place will become 1's place
//100's place -> 10's place and so on.
17:
18:
19:
20:
21:
22:
23:
          number/=10;
24:
25:
        cout<<"Sum of digits:"<<sum_of_digits<<endl;</pre>
26:
27:
28:
        return 0;
29: }
30:
31:
```

SUM-OF-DIGITS.CPP output

```
1: Enter a number:1234
2: Sum of digits:10
3:
```