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Algorithm

Step 1: Start

Step 2: Enter string = $i = \text{sum} = 0$

Step 3: \rightarrow for($i=0$; $\text{str}[i] \neq '\backslash 0'$; $i++$)

```
if ((str[i] >= '0') && (str[i] <= '9'))  
{  
    sum += (str[i] - '0');  
}
```

Step 4: Output sum of all digits.

Step 5: Stop.

Flow chart:

