|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Variables | | | Conditions checked | | | |  |  |
| Line number | num | sum | iteration | n>0 | Digit=n%10 | Sum=sum+digit | N=n/10 | Iteration=iteration+1 | Output |
| 2 | 2839 |  |  |  |  |  |  |  |  |
| 3 |  | 0 |  |  |  |  |  |  |  |
| 4 |  |  | 0 |  |  |  |  |  |  |
| 5 |  |  |  | 2839>0  True |  |  |  |  |  |
| 6 |  |  |  |  | 2839%10=9 |  |  |  |  |
| 7 |  |  |  |  |  | 0+9=9 |  |  |  |
| 8 |  |  |  |  |  |  | 2839/10=283.9 |  |  |
| 9 |  |  |  |  |  |  |  | 0+1=1 |  |
|  |  |  |  |  |  |  |  |  | iteration=1 |
|  | 283 |  |  |  |  |  |  |  |  |
|  |  | 9 |  |  |  |  |  |  |  |
|  |  |  | 1 |  |  |  |  |  |  |
| 5 |  |  |  | 283>0  TRUE |  |  |  |  |  |
| 6 |  |  |  |  | 283%10=3 |  |  |  |  |
| 7 |  |  |  |  |  | 9+3=12 |  |  |  |
| 8 |  |  |  |  |  |  | 283/10=28.3 |  |  |
| 9 |  |  |  |  |  |  |  | 1+1=2 |  |
|  |  |  |  |  |  |  |  |  | Iteration=2 |
|  | 28 |  |  |  |  |  |  |  |  |
|  |  | 12 |  |  |  |  |  |  |  |
|  |  |  | 2 |  |  |  |  |  |  |
| 5 |  |  |  | 28>0 TRUE |  |  |  |  |  |
| 6 |  |  |  |  | 28%10=8 |  |  |  |  |
| 7 |  |  |  |  |  | 12+8=20 |  |  |  |
| 8 |  |  |  |  |  |  | 28/10=2.8 |  |  |
| 9 |  |  |  |  |  |  |  | 2+1=3 |  |
|  |  |  |  |  |  |  |  |  | Iteration=3 |
|  | 2 |  |  |  |  |  |  |  |  |
|  |  | 20 |  |  |  |  |  |  |  |
|  |  |  | 3 |  |  |  |  |  |  |
| 5 |  |  |  | 2>0 TRUE |  |  |  |  |  |
| 6 |  |  |  |  | 2%10=2 |  |  |  |  |
| 7 |  |  |  |  |  | 20+2=22 |  |  |  |
| 8 |  |  |  |  |  |  | 2/10=0.2 |  |  |
| 9 |  |  |  |  |  |  |  | 3+1=4 |  |
|  | 0 |  |  |  |  |  |  |  |  |
|  |  | 22 |  |  |  |  |  |  |  |
|  |  |  | 4 |  |  |  |  |  |  |
|  |  |  |  | 0>0 FALSE |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | Iteration=4 |
|  |  |  |  |  |  |  |  |  | Sum=22 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | VARIABLES | | | CONDITIONS CHECKED | | | |  |  |
|  | num | sum | iteration | n>0 | Digit=n%10 | N=n/10 |  | OUTPUT | |
| 2 | 2839 |  |  |  |  |  |  |  | |
| 3 |  | 0 |  |  |  |  |  |  | |
| 4 |  |  | 0 |  |  |  |  |  | |
| 5 |  |  |  | 2839>0  TRUE |  |  |  |  | |
| 6 |  |  |  |  | 2839%10=9 |  |  |  | |
| 7 |  | 0+9=9 |  |  |  |  |  |  | |
| 8 |  |  |  |  |  | 2839/10=283.9 |  |  | |
| 9 |  |  | 0+1=1 |  |  |  |  |  | |
| 10 |  |  |  |  |  |  |  | Iteration=1 | |
|  | 283 |  |  |  |  |  |  |  | |
|  |  | 9 |  |  |  |  |  |  | |
|  |  |  | 1 |  |  |  |  |  | |
| 5 |  |  |  | 283>0  True |  |  |  |  | |
| 6 |  |  |  |  | 283%10=3 |  |  |  | |
| 7 |  | 9+3=12 |  |  |  |  |  |  | |
| 8 |  |  |  |  |  | 283/10=28.3 |  |  | |
| 9 |  |  | 1+1=2 |  |  |  |  |  | |
| 10 |  |  |  |  |  |  |  | Iteration =2 | |
|  | 28 |  |  |  |  |  |  |  | |
|  |  | 12 |  |  |  |  |  |  | |
|  |  |  | 2 |  |  |  |  |  | |
| 5 |  |  |  | 28>0  TRUE |  |  |  |  | |
| 6 |  |  |  |  | 28%10=8 |  |  |  | |
| 7 |  | 12+8=20 |  |  |  |  |  |  | |
| 8 |  |  |  |  |  | 28/10=2.8 |  |  | |
| 9 |  |  | 2+1=3 |  |  |  |  |  | |
| 10 |  |  |  |  |  |  |  | Iteration=3 | |
|  | 2 |  |  |  |  |  |  |  | |
|  |  | 20 |  |  |  |  |  |  | |
|  |  |  | 3 |  |  |  |  |  | |
| 5 |  |  |  | 2>0  TRUE |  |  |  |  | |
| 6 |  |  |  |  | 2%10=2 |  |  |  | |
| 7 |  | 20+2=22 |  |  |  |  |  |  | |
| 8 |  |  |  |  |  | 2/10=0.2 |  |  | |
| 9 |  |  | 3+1=4 |  |  |  |  |  | |
| 10 |  |  |  |  |  |  |  | Iteration=4 | |
|  | 2 |  |  |  |  |  |  |  | |
|  |  | 22 |  |  |  |  |  |  | |
|  |  |  | 4 |  |  |  |  |  | |
|  |  |  |  | 0>0  FALSE |  |  |  |  | |
|  |  |  |  |  |  |  |  | Sum=22 | |