Problem: 8

IPO

Input:

Enter the Number

Process:

While $(a > 0)$

First a divide by 10 and store the reminder in b and answer in a Then Add c and b (where c is is equal zero) and store in c

End while

Print " c "

Output.

Sum of digits

Pseudocode

Start

Input "Enter the Number"

   a:= Number

    b:=0

    c:=0

While (a>0)

     b= a % 10

     a:= a/10

     c:= c+b

End while

   Print "c"

End

```
                    ( Start )
                        |
                        v
          +---------------------------+
          |   a := Number             |
          |   b := 0                  |
          |   c := 0                  |
          +---------------------------+
                        |
                        v
                    /  a  /
                        |
                        v
                     < a > 0 > --------------+
                        |                    |
                       yes                   v
                        v                  /  c  /
          +---------------------------+      |
          |   b := a % 10             |      v
          +---------------------------+   ( End )
                        |
                        v
          +---------------------------+
          |   a := a / 10             |
          +---------------------------+
                        |
                        v
          +---------------------------+
          |   c : c + b               |
          +---------------------------+
```