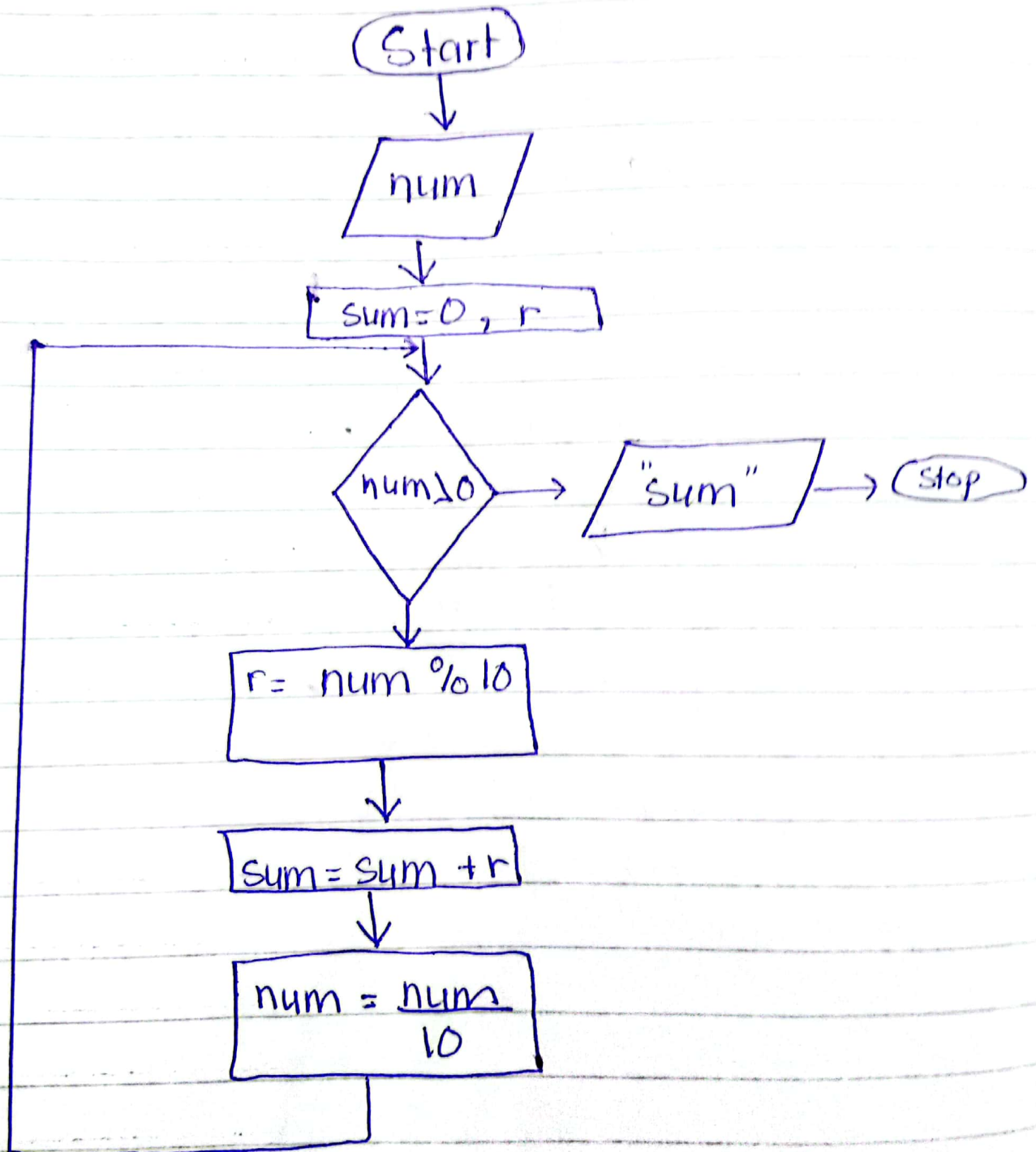


## Problem 8: Digit sum



## Pseudocode

- Start
- // Input a +ve number  
Enter a number
- // initialisation  
 $sum = 0$ ,  $r$
- // condition  
if ( $num \geq 0$ )  
then  
 $r = num \% 10$   
 $sum = sum + r$   
then  
 $num = \frac{num}{10}$
- else,  
Print "sum"
- End

## IPO

| Input | Processing  | Module Preference  | Output |
|-------|---|--|--------|
| num   | <ul style="list-style-type: none"> <li>• Enter num</li> <li>• <math>\text{num} \geq 0</math></li> <li>• <math>\text{num} \% 10 = r</math></li> <li>• <math>\text{num} = \frac{\text{num}}{10}</math></li> <li>• <math>\text{sum} = \text{sum} + r</math></li> <li>• Print "sum"</li> <li>• End</li> </ul> | Read<br><br>condition<br>Calc<br>Calc<br><br>Calc<br>Print | Sum    |